

AUTHENTIC SCIENCE FICTION MONTHLY

VOL 1 No 31 Edine .

H I CAMPBELL ALCHARLES L. HARNESS ... 4 Short Story Never Been Kissed ACKERMAN Serial

Frontier Legion AVS I BOUNDS......S4 Corner by

BICHARDS Guest Article by William F. Temple.....30 PISCHER

Projectiles.....139 Authentic Science Fiction is a periodical published on the

Use of each month. This issue is No. 31, and has a sublishing does of March 18th 1983. The codespie are convolube and must not be reproduced in whole or at part accept with manuscripts are invited, but in all cases return postage and enver should be anclosed. No responsibility is accepted for

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H. J. CAMPBELL'S PAGE

Some of you seem to have got it all wrong. The word has gone around bere and there that we are now printing only show tories. We are not doing anything of the kind. In each and every issue since Authentic began life two years ago there has been a long royal. And that is the

What we have done is to give you a lot more pages for nothing and to fill those pages with short stories. As we said before, it's a kind of gift from the publishers to help British science fiction alone the road to world-wide

along the road to world-wide recognition as a literary form.
And in this issue we give you, by the grace of Charles L. Harness, one of the finest science-fiction novels yet to see print. This will very shortly appear as a hard-cover book in

America and we are pleased and proud to give you this preview, Arthur C. Clarke believes Harness has an original mind. We think you will all agree when you have read this lyrical, nostalgie, brilliant novel—The Rose. It is all I can do to stop myself calling it colossal!

E. Everett Evans' Never Been Kitted is in a lighter vein. It's a new way of looking at man's outpost on Mars. New and intriguing. I hope you like it. This issue sees the end of our strial. Many of you, from what you say in your letters, will be

glad. Not so much because you don't like the story—lots of you had been the story—lots of you had been the story—lots of you had been the story—lots of you whole month before finding out what happees next. Well, as an always, we how toyour decisions. No more serials.

a long novel. And that is the Instead, the next issue will way it is point to be in future.

contain at least three short storks in addition to the long novel. One is by Rick Councy, entitled Mame from Heaven. Rick is a discovery of curs and we know that you will enjoy this story by the author of Martinas in a Frares World and Million from Marx. Here again, we are acceding to your request for stories by former Authoritie mathors.

There are other things, too. Letters commenting on our January issue made soveral collective points about our layout and cover design. You will see that the changes have been made in this issue.

This issue, too, contains the first starred letter on our Projectiles page. Six non-fiction books have gone off to Mr. Rattigan as an appreciation for his highful and retunned comments. As always, we cannot print the whole of the letter, but what we have printed shows the care who will be contained to the print the whole of the letter, but what we have printed shows the care who while the print of the pri

It is not yet known definitely whether or not our American commetator, Forrest J. Ackerman, will be coming to this country in a mooth or so for the count, in 1940, be gave to all a lot to think about with his dedightfully drawing account of science fiction and fundom in the States. A for has been happen to the state of the state

even more exciting news for us if he can make the trip. Forry is looking forward to meeting Authentic readers, so make sure you are there. (Details from the Convention Secretary, White Horse Tayern, Fetter Lane.

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public awareness of the certainty of space conquest. This is evidenced by space articles in masteriulation magazines, by cartoons in national daily mewspapers, by spacenship models at popular exhibitions, even by futuristic toys in the shops. And there is now a definite possibility that a Government holy will be set up to see that British does not also behind in progress towards the set up to see that British does not also behind in progress towards

and primary in the control of the co

artificial satelline would give the

owner nation a tremendour ad

waniage over all others.

In this magazine and in others of its kind, we treat the subject fictionally. But it is incumbent upon us to be sure that it will remain in the realms of fiction ing the gospel of science fiction we also bring bome to those less imaginative than ourselves the durk possibilities—scene would say probabilities—that come aution while others hold the key

In time, I hope, our politicians will realise that science fiction is not the stuff that childish dreams are made of but the stuff that makes for nightmares of a kind never before experienced in human history. Let us hone

But hope is not enough, Something has to be done. It is being done, Science-fittion fans are on the increase. This magazine alone can show a list of many thouands of people who never read science fiction before and are now staunch supporters.

They would think it strange, you know, those men in the City with their stocks and startet, those reformers and philosophers and prions and proper highbrow socialists—they would think it strange if you told them that science fotion is playing a vital part in the defence of democracy as we know it in Britain. But

as we know it in Britain. But it's true.

They would laugh. They might sneer. But the time will come when in one of these editorials

I will tell you about that first Moon rocket. I hope it will be one of ours.

H.J.C.



In the ultimate evolution, science must

clash with the artist ER ballet slippers made a soft slapping sound,

moody, mournful, as Anna van Tuyl sterpted into the annex of her psychiatrical consulting room and walked toward the tall mirror. Within seconds she would know whether she was ugly, As she had done half a thousand times in the past two years, the young woman faced the great glass equarely, brought her arms up gracefully and rose

upon her tip-toes. And there resemblance to past hours ceased. She did not proceed to an uneasy study of her



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face and figure. She could not. For her eyes, as though acting with a wisdom and volition of their own, had

Anna van Tuvl was too much the professional psychiatrist not to recognise that her subconscious mind had shricked its warning. Eyes still shut, and breathing in great gasps, she dropped from ber toes as if to turn and leap away. Then gradually she straightened. She must force herself to go through with it. She might not be able to bring herself here, in this mood of candid receptiveness, twice in one lifetime. It must be now.

She trembled in brief, silent premonition, then quietly

raised her evelids.

Sombre eyes looked out at her, a little darker than yesterday: pools ploughed around by furrows that today gouged a little deeper—the result of months of squinting up from the position into which her spinal squanting up from the position into which her spinal deformity had threat be neck and shoulders. The pale lips were pressed together just a little tighter in their defence against unpredictable pain. The checks seemed shoodless, having been bleached finally and completely by the Unfinished Dream that haunted her sleep, wherein a nightingale fluttered about a white rose.

As if in brooding confirmation, she brought up

simultaneously the pearl-translucent fingers of both hands to the upper borders of her forchead, and there pushed hack the incongruous masses of newly-grey hair from two tumorous hulges—like incipient horns. As she did this she made a quarter turn, exposing to the mirror the humped grotesquerie of her back.

Then, hy degrees, like some netherworld Narcissus, she began to sink under the hizarre enchantment of that

missbapen image. She could retain no real awareness that this creature was sbe. That profile, as if seen through that this creature was sbe. That profile, as if seen through witch-opened cyes, might have been that of some enormous toad, and this flickering metaphor paralysed ber first and only forlorn attempt at identification. In a vague way, she realised that she had discovered what she had set out to discover. She was ugly. She

was even very nely.

The change must have heen gradual, too slow to say of any one day: Yesterday I was not ugly. But even eyes that hungered for deception could no longer deny the cumulative evidence.

the cumulative evidence.

So slow—and yet so fast. It seemed only yesterday
that had found her face down on Matthew Bell's examination table, hiting savagedy at a little pillow as his gnarled
fingertips prohed grimly at her upper thoracic vertebra.

Well, then, she was ugly. But she'd not give in to self-pity. To hell with what she looked like! To hell with mirrors!

On sudden impulse she scized her balancing tripod with both hands, closed her eyes, and swung. The tinkling of falling mirror glass had hardly ceased

when a harsh and gravelly voice hailed her from her office. "Bravo!" She dropped the practice tripod and whirled, aghast.

She dropped the practice tripod and whirled, aghast, "Matt!"

"Just thought it was time to come in. But if you want

to hawl a little, I'll go back out and wait. No?" Without looking directly at her face or passing for a reply, he tossed a packet on the table. "There it is. Honey, if I could write a hallet score like your Nightingale and the Roze, I wouldn't care if my spine was knotted in a figure eight."

"You're crazy," she muttered stonily, unwilling to admit that she was hoth pleased and curious. "You don't know what it means to have once heen ahle to pirouette, to halance en arabesque. And anyway"—she looked at him from the corner of her eye—"how could anyone tell whether the score's good? There's no Finale as yet. It isn't finished."

"Neither is the Mona Lisa, Xanadu, or a certain symphony by Schuhert."

symphony by Schubert."
"But this is different. A plotted hallet requires an integrated sequence of events leading up to a climax—to a Finale. I haven't figured out the ending. Did you notice I left a thirty-eight-heat hiatus just before the

him ahout The Dream-that she always awoke just hefore that death song began.
"No matter. You'll get it eventually. The story's straight out of Oscar Wilde, isn't it? As I recall, the

straight out of Oscar Wilde, and at 7 at 7 at 1 recent, the student needs a red rose as admission to the dance, but his garden contains only white roses. A fooths, if the strain of the strain on a white rose term, and the resultant III-advised transitision produces a red rose. . . and a dead nightingule. In: that about all there is to it?"

"Almost. But I still need the nightingule's death song. That's the whole point of the hallet. In a plotted haltet,

every chord has to be fitted to the immediate action, blended with it, so that it supplements it, explains it, bended with it, so that it supplements it, expanse it, unifies it, and carries the action toward the climax. That death song will make the difference between a good score and a superior one. Don't smile. I think some of my individual scores are rather good, though of cou I've never heard them except on my own piano. I without a proper climax, they'll remain unintegrate
They're all variants of some clusive dominating leitmo
—some really marvellous theme I haven't the greatness

—some really marvellous thems I haven't the greatness of soul to grap. I know it's something prolound and poignant, like the detected thems in Trition. It probably Till vest find it. The nightinghed dess with her secret." She passed, opened her lips as though to continue, and then fell moothly slent again. She wanted to go no taking, to lose heavel'in volshinly. But now the reaction was underly very timed. Had she ever wanted to cry! Now she thought only of sleep. But a furrive plance at her virtuards told ber if was hardy to o'clock.

The man's craggy eyehrows dropped in an imper-ceptible frown, faint, yet craftily alert. "Anna, the man who read your Rose score wants to talk to you ahout staging it for the Rose Festival—you know, the annual affair in the Via Rosa."

"I-an unknown-write a Festival hallet?" She added with dry incredulity: "The Ballet Committee is

in complete agreement with your friend, of course?"

"He is the Committee," "What did you say his name was?"

"I didn't."

She peered up at him suspiciously. "I can play games, too. If he's so anxious to use my music, why doesn't

he come to see me?"

"He isn't that anxious," "Oh, a hig shot, ch?" "Not exactly. It's just that he's fundamentally adifferent toward the things that fundamentally interest him. Anyway, he's got a complex about the Via Rosa—

ours." She ruhbed her chin thoughtfully. "Will you believe it, I've never been there. That's the rose-walled district where the ars-gratia-artis professionals live, isn't it?
Sort of a plutocratic Rive Gauche?"
The man exhaled in expansive affection, "That's the

Via, all right. A six-hundred pound chunk of Carrara marble in every garret, resting most likely on the grand piano. Poppa chips furiously away with an occasional glance at his model, who is momma, posed au naturel.

Anna watched his eyes grow dreamy as he continue.

Anna watched his eyes grow dreamy as he continued. "Momma is a little restless, having suddenly recalled that the halp's bottle and that can of caviar should have come out of the atomic watment at some nethulous keyboard, surreptitiously switching from Czerny to a torrid little number she's going to try on the trap-drummer in Derara's Via orchestra. Bereath the plane are the halp and mongrei pur, Despite their tender age, this thing is already in their blood. Or at least, their stomachs, for they have just finished an hors d'oeuvre of marble chips and now amiably share the piece de resistance, a hattered but rewarding tube cf Van Dyke hrown."

Anna listened to this with widening eyes. Finally she gave a short amazed laugh. "Matt Bell, you really love that life, don't you?"

He smiled, "In some ways the creative life is pretty carefree. I'm just a psychiatrist specialising in psychogenetics. I don't know an arpeggio from a dry point etching, hut I like to be around people that do." He hent forward earnestly. "These artists—these golden people—they're the coming force in society. And you're one of them, Anna, whether you know it or like it. You and your kind are going to inherit the earth—only you'd better hurry if you don't want Martha Jacques and her National Security scientists to get it first. So the hattle lines converge in Renaissance II. Art versus Science. Who dies? Who lives?" He looked thoughtful, lonely. He might have been pursuing an introspective monologue in the solitude of his own chambers.

"This Mrs. Jacques," said Anna. "What's she like? You asked me to see her tomorrow about her hushand, you know."

"Darn good looking woman. The most valuable mind in history, some say. And if she really works out something concrete from her Sciomnia equation. I guess there won't he any doubt about it. And that's what makes her potentially the most dangerous human being alive: National Security is fully aware of her value, and they'll coddle her tiniest whim—at least until she pulls something tangible out of Sciomnia. Her main whim for the past few years has been her errant husband, Mr. Ruy Jacques."

"Do you think she really loves him?"

"Just between me and you she hates his guts. So naturally she doese't want any other woman to get him. She has him watched, of course. The Security Bureau co-operate with alscrify, hecause they don't want foreign agents to approach her through him. There have heen ugly rumours of assassinated models . . . But I'm digressing." He cocked a quizzical eye at her. "Permit me to repeat the invitation of your unknown admirer.

Like you, he's another true child of the new Renaissance.

The two of you should find much in common—more than you can now guess. I'm very serious about this, Anna, Seek him out immediately-tonisht-now. There aren't any mirrors in the Via."

"Please, Matt."

"Honey," he growled, "to a man my age you aren't ugly. And this man's the same. If a woman is pretty, he paints her and forgets her. But if she's some kind of an artist, he talks to her, and he can get rather endless sometimes. If it's any help to your self-assurance, he's about the homeliest creature on the face of the earth.

You'll look like De Milo alongside him." The woman laughed shortly. "I can't get mad at you, can I? Is he married?"

"Sort of." His eyes twinkled, "But don't let that concern you. He's a perfect scoundrel."

"Suppose I decide to look him up. Do I simply run up and down the Via paging all homely friends of Dr. Matthew Bell?"

"Not quite. If I were you Pd start at the entrance— where they have all those queer side-shows and one-man exhibitions. Go on past the vendress of love philters and work down the street until you find a man in a white suit with polka dots."

"How perfectly odd! And then what? How can I introduce myself to a man whose name I don't know? Oh, Matt, this is so silly, so childith . . ."

He shook his head in slow denial. "You aren't going to think about names when you see him. And your name won't mean a thing to him, anyway. You'll be lucky if you aren't 'hey you' by midnight. But it isn't going to matter."

"It isn't too clear why you don't offer to escort me." She studied him calculatingly. "And I think you're withholding his name because you know I wouldn't go if you revealed it."

He merely chuckled. She lashed out: "Damn you, get me a cab."

"IELL ya what the professor's gonna do, ladies and gentlemen. He's gonna defend not just one paradox. Not just two. Not just a dozen. No, ladies and gentlemen, the professor's gonna defend seventeen, and all in the space of one short hour, without repeating himself, and including a hrand-new one he just thought up today: 'Music owes its meaning to its ambiguity.' Remember, folks, an axiom is just a paradox the professor hasn't got hold of yet. The cost of this dazzling display . . . don't crowd there, mister . . ."

Anna felt a relaxing warmth flowing over her mind, washing at the encrusted strain of the past hour. She smiled and elbowed her way through the throng and on down the street, where a garishly lighted sign, bat-wing doors, and a forlorn cluster of waiting women announced the next attraction:

"FOR MEN ONLY. Daring blindfold exhibitions

and variety entertainments continuously."

Inside, a loudspeaker was blaring: "Thus we have seen how to compose the ideal end-game problem in

choss. And now, gentlemen, for the small consideration of an additional quarter . . . But Anna's attention was now occupied by a harsh

cawing from across the street, Love philters! Works on male or female! Any age!

Never fails!" She laughed aloud, Good old Matt! He had foreseen what these glaring multifaceted nonsensical stimuli would

do for her. Love philters! Just what she needed! The yendress of love philters was of ancient vintage perhans seventy-five years old. Above cheeks of wrinkled leather her eyes glittered speculatively. And how weirdly she was clothed! Her hedraggled dress was a shricking

purple. And under that dress was another of the same e, though perhaps a little faded. And under that, still another. "That's why they call me Violet," cackled the old

woman catching Anna's stare. "Retter come over and let me mix you one." But Anna shook her head and passed on, eyes shining.

Fifteen minutes later, as she neared the central Via area, ber receptive reverie was interrupted by the outburst of music abead.

Good! Watching the street dancers for half an hour would provide a highly pleasant climax to her escapade. Apparently there wasn't going to be any man in a polka dot suit. Matt was going to be disappointed, but

it certainly wasn't ber fault she badn't found bim.
There was something oddly familiar about that music. She quickened ber pace, and then, as recognition came, she began to run as fast as ber crouching back would permit. This was her music—the prelude to Act III of

She burst through the mass of spectators lining the dance square. The music stopped. She stared out into the scattered dancers, and what she saw staggered the twisted frame of her slight body. She fought to get air

through ber vacuously-wide mouth.

In one unearthly instant, a rift bad threaded its way through the dancer-packed square, and a pasty white face, altogether spectral, bad looked down that open rift into bers. A face over a body that was envelo a strange flowing gown of shimmering white. She thought be had also been wearing a white academic mortar board, but the swarming dancers closed in again She fought an unreasoning impulse to run.

Then, as quickly as it had come, logic reasserted

itself; the shock was over. Odd costumes were no rarity on the Via. There was no cause for alarm,

rarity on the via. Insere was no cause for alarm. She was breathing almost normally when the music died away and someone began a barsh barangue over the public address system. "Ladies and gentlemen, it is our rare good fortune to bave with us tonight the genius who composed the music you have been enjoying." A sudden burst of laughter greeted this, seeming to originate in the direction of the orebestra, and was counterpointed by an uncomplimentary blare from one

"Your mockery is misplaced, my friends. It just so

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happens that this genius is not I, but another. And since she has thus far had no opportunity to join in the revelry, your inimitable friend, as The Student, will take her hand, as The Nightingale, in the final pas de deux from

Act III. That should delight her, yes?" The address system clicked off amid clapping and a buzz of excited voices, punctuated by occasional shouts.

She must escape! She must get away!
Anna pressed back into the crowd. There was no

dot suit. That creature in white certainly wasn't he.
Though how could he have recognised her?

She hesitated. Perhaps he had a message from the other one, if there really was one with polka dots.

No, she'd hetter go. This was turning out to be more

of a nightmare than a lark.

She peeked hack from hehind the safety of a woman's sloeve, and after a moment located the man in white. His pasty-white face with its searching eyes was much closer. But what had happened to his white cap and gown? Now, they weren't white at all! What optical fantasy was this? She ruhhed her eyes and looked again. The cap and gown seemed to be made up of green and purple polka dots on a white hackground! So he

was her man! She could see him now as the couples spread out hefore him, exchanging words she couldn't hear, but

which soemed to carry an irresistible laugh response. Very well, she'd wait.

Now that everything was cleared up and she was safe again hehind her armour of objectivity, she studied him with growing curiosity. Since that first time she had never again got a good look at him. Someone always seemed to get in the way. It was almost, she thought, as though he was working his way out toward her, taking every advantage of human cover, like a hunter closing in on wary quarry, until it was too late . . . He stood before her.

There were harsh clanging sounds as his eyes locked

with hers. Under that feral scrutiny the woman maintained her mental halance by the narrowest margin, The Student

The Nightingale, for love of The Student, makes a

Red Rose. An odious liquid was burning in her throat, but she couldn't swallow.

Gradually she forced herself into awareness of a twisted, sardonic mouth framed between aquiline nose and jutting chin. The face, plastered as it was hy white powder, bad revealed no distinguishing features beyond its unusual size. Much of the hrow was obscured by the many tassels dangling over the front of his travestied mortar-board cap. Perhaps the most striking thing about the man was not his face, but his body. It was evident that he had some physical deformity, to outward appearances not unlike her own. She knew intuitively that he was not a true hunchback. His chest and shoulders were excessively broad, and be seemed, like her, to carry a mass of superfluous tissue on his upper thoracic vertebrae. She surmised that the scapulæ

would be completely obscured,

His mouth twisted in subtle mockery. "Bell said
you'd come." He bowed and held out bis right hand. "It is very difficult for me to dance," she pleaded in a low burried voice, "I'd humiliate us both." "I'm no better at this than you, and probably worse.

But I'd never give up dancing merely because someone

might think I looked awkward. Come, we'll use the simplest steps." There was something barsh and resonant in his voice that reminded her of Matt Bell. Only . . . Bell's voice

had never set her stomach churning,

He held out his other hand. Behind him the dancers had retreated to the edge of

the square, leaving the centre empty, and the first heats of ber music from the orchestra pavilion floated to her with ecstatic clarity.

Just the two of them, out there . . . before a thousand eyes

Subconsciously she followed the music. There was

her cue-the signal for the Nightingale to fly to her

ner cue—the sugari for the Nigatinguae to hy to ner fatul assignation with the white rose. She must reach out both perspiring hands to this stranger, must hierd her deformed hody into his equally misshapen one. She must, because he was The Student, and she was The Nightingale.

She moved toward him silently and took his hands.

As she danced, the barsh-lit street and faces seemed gradually to vanish. Even The Student faded into the harely perceptible distance, and she gave herself up to The Unfinished Dream.

SHE dreamed that she danced alone in the moonlight, that she fluttered in solitary circles in the moonlight, fascinated and appalled by the thing she must do to create a Red Rose. She dreamed that she sang a strange and magic song, a wondrous series of chords, the song she had so long sought. Pain buoyed her on excruciating wings, then flung her heavily to earth. The Red Rose was made, and she was dead. She groaned and struggled to sit up.

Eyes glinted at her out of pasty whiteness. "That was quite a par-only more de seul than de deux," said the

Sbe looked about in uneasy wonder.

They were sitting together on a marble bench hefore

a fountain. Behind them was a curved walk hounded by a high wall covered with climbing green, dotted here and there with white.

She put her hand to her forehead, "Where are we?" "This is White Rose Park."

"How did I get here?" "You danced in on your own two feet through the

archway yonder." "I don't remember . . ."

"I thought perhaps you were trying to lend a hit of realism to the part. But you're early." "What do you mean?"

"There are only white roses growing in here, and even they won't be in full bloom for another month,

In late June they'll be a real spectacle. You mean you didn't know about this little park?" "No. I've never even been in the Via before. And

yet . . . '

"And yet what?" She hadn't been able to tell anyone-not even Matt Bell-what she was now going to tell this man, an utter stranger, her companion of an hour. He had to he told hecause, somehow, he too was caught up in the dream

She began haltingly, "Perhaps I do know ahout this place. Perhaps someone told me about it, and the information got huried in my subconscious mind until I wanted a white rose. There's really something hehind my ballet that Dr. Bell didn't tell you. He couldn't, hecause I'm the only one who knows. The Rose music comes from my dreams. Only, a better word is nightmares. Every night the score starts from the heginning In the dream, I dance. Every night, for months and dancing. I tried to get it out of my head, but I couldn't.
I started writing it down, the music and the chorec-

The man's unsmitting eyes were fixed on her face in deep absorption.

Thus encouraged, she continued. "For the past several nights I have dreamed almost the complete ballet, right up to the death of the nightingale. I suppose I identify myself so completely with the nightingale that I subconsciously censor her song as she presses her hreast against the thorn on the white rose, That's where I always awakened, or at least, always did before tonight But I think I heard the music tonight. It's a series of chords . . . thirty-eight chords, I believe. The first nincteen were frightful, but the second nincteen were marvellous. Everything was too real to wake up. The Student, The Nightingale, The White Roses."

But now the man threw back his head and laughed

raucously. "You ought to see a psychiatrist!"

Anna howed her head humbly.

"Oh, don't take it too hard," he said, "My wife's

even after me to see a psychiatrist." "Really?" Anna was suddenly alert. "What seems to

be wrong with you? I mean, what does she object to?" "In general, my laziness. In particular, it seems I've

forgotten how to read and write." He gave her widening eyes a sidelong look. "I'm a perfect parasite, too. Haven't done any real work in months. What would you call it if you couldn't work until you had the final measures of the Rose, and you kept waiting, and nothing

He was glumly silent.

Anna asked, hesitantly, yet with a growing certainty. "This thing you're waiting for . . . might it have anything to do with the ballet? Or to phrase it from your point of view, do you think the completion of my ballet may help answer your problem?"

men answer your proteen r
"Might. Couldn't say."

She continued quietly. "You're going to have to face
it eventually, you know. Your psychiatrist is going to
ask you. How will you answer?"

"I won't. I'll tell him to go to the devil."

"How can you be so sure he's a he?" "Oh? Well, if he's a she, she might he willing to pose al fresco an hour or so. The model shortgage is quite grave you know, with all of the little dears trying to be painters."

"But if she doesn't have a good figure?"

"Well, maybe her face has some interesting possibilities. It's a rare woman who's a total physical loss." Anna's voice was very low, "But what if all of her were very ugly? What if your proposed psychiatrist were me, Mr. Ruy Jacques?"

His great dark eyes blinked, then his lips pursed and exploded into insane laughter. He stood un suidenly. "Come, my dear, whatever your name is, and let the

blind lead the blind." "Anna van Tuyl," she told him, smiling, She took his arm. Together they strolled around the arc of the walk toward the entrance arch.

She was filled with a strange contentment.

Over the green-crested wall at her left, day was about to break, and from the Via came the sound of groups of die-hard revellers, breaking up and drifting away, like spectres at cock-crow. The cheerful clatter of milk hottles got mixed up in it somehow.

They paused at the archway while the man kicked at the seat of the pants of a spectre whom dawn had returned to slumher heneath the arch. The sleeper cursed and stumhled to his feet in hleary indignation.

"Excuse us, Willie," said Anna's companion, motioning for her to step through.

She did, and the creature of the night at once dropped into his former sprawl.

into his former sprawl.

Anna cleared her throat. "Where now?"

"At this point I must cease to be a centleman. I'm

returning to the studio for some sleep, and you can't come. For, if your physical energy is inexhaustible, mine is not." He raised a hand as her startled mouth dropped open. "Please, dear Anna, don't insist. Some other night, perhaps."

"Why, you---"

"Tut tut." He turned a little and kicked again at the sleeping man. "I'm not an utter cad, you know. I would never ahandon a weak, frail, unprotected woman in the Via."

She was too amazed now even to sputter. Ruy Jacques reached down and pulled the drunk up

against the wall of the arch, where he held him firmly,
"Dr. Anna van Tuyl, may I present Willie the Cork."
The Cork grinned at her in unfocused somnolence.
"Most pecule cell him the Cork because that," what

The Cork grinned at her in unfocused somnolence.
"Most people call him the Cork because, that's what seals in the bottle's contents," said Jacques. "I call him the Cork because he's always hobbing up. He looks like a hum, hut that's just because he's a good actor. He's really a Security man tailing me at my wife's request, and he'd only be too delighted for a little

further conversation with you. A cheery good morning

to you hoth!"

A milk truck wheeled around the corner. Jacques leaped for its running hoard, and he was gone before the psychiatrist could voice the protest holling up in her. A gurgling sigh at her feet drew her eyes down momentarily. The Cork was apparently hohbing once more on his own private alcoholic ocean.

Anna snorted in mingled disputs and amusement, then halled a cash. As as halmmed the door, she took one last look at Willie. Not until the cah rounded the corner and cut off his milled snores did she realise that people usually don't snore with their eyes half-opened and tooking at you, especially with eyes no longer histories with sleep, but hard and glinting. Type Type Horn later, in another each and in a different

I part of the city, Anna peered absently out at the stream of traffic. Her mind was on the coming conference with Martha Jacques. Only twelve hours ago Mrs. Jacques halt of necessiry case history. Twelve hours ago Anna hadn't really care history. Twelve hours ago and hadn't really care and gave her the case. Now it was all different she wanted the case, and she was going to get it.
Ruy Jacques—how many hours awaited her with

Ruy Jacques—how many hours awaited her with this amazing scoundrel, this virtuoso of liberal—nay, loose—arts, who held locked within his remarkahle mind the missing pieces of their joint jigsaw puzzle of The Rose?

That ieering, mocking face—what would it look like

without makeup? Very ugly, she hoped. Beside his, her own face wasn't too had.

her own face wasn't too had.

Only—he was married, and she was en route at this moment to discuss preliminary matters with his wife, who, even if she no longer loved him, at least had prior rights to him. There were considerations of professional ethics even in thinking ahout him. Not that she could

with one who had treated her so cavalierly. Willie the Cork, indeed!

As the waited in the cold silence of the great antichamber adojating the office of Martha Jacques, Anna sensed that she was heing watched. She was quite certain that hy now she o'l heen photographed, x-rayed for hidden weapons, and her fingerprints taken from her professional card. In colosal central police files a thousand miles away, a hored clerk would he leafing through her dossier for the henefit of Colonel Grade's visiteranh in the office

eyond.

"Br. van Tuyl to see Mrs. Jacques. Please enter door B-3," said the tinny voice of the intercom. She followed a guard to the door, which he opened for

She followed a guard to the door, which he opened for her.

This room was smaller. At the far end a woman, a

very lovely woman, whom she took to he Martha Jacques, sat peering in deep abstraction at something on the desk hefore her. Beside the desk, and slightly to the rear, a moustached man in plain clothes stood, reconnotiring Anna with hawk-like eyes. The description fitted what Anna had heard of Colonel Grade, Chief of

the National Security Bureau, Grade stepped forward and introduced himself curtly,

then presented Anna to Mrs. Jacques.

And then the psychiatrist found her eyes fastened to a sheet of paper on Mrs. Jacques' desk. And as she stared, she felt a sharp dagger of ice sinking into her spine, and she grew slowly aware of a hackground of hrooding whispers in her mind, heart-constricting in their suggestions of mental disinterartial distinterartial

For the thing drawn on the paper, in red ink, wasalthough warped, incomplete, and misshapen-un-

mistakahly a rose.
"Mrs. Jacques!" cried Grade.

Martha Jacques must have divined simultaneously Anna's great interest in the paper. With an apologetic murmur she turned it face down. "Security regulations, you know. Tm really suproped to keen it locked up in the presence of visitors." Even a murmur could not hide

the harsh metallic quality of her voice. So that was why the famous Sciomnia formula was

sometimes called the "Jacques Rosette": when traced in an ever-expanding wavering red spiral in polar

co-ordinates, it was . . . a Red Rose.

The explanation brought at once a feeling of relief
and a sinister deepening of the sense of doom that had overshadowed her for months. So you, too, she thought wonderingly, seek The Rose. Your artist-husband is wretched for want of it, and now you. But do you seek the same rose? Is the rose of the scientist the true rose, and Ruy Jacques' the false? What is the rose? Will I ever know?

Grade hroke in. "Your hrilliant reputation is deceptive, Dr. van Tuyl. From Dr. Bell's description, we had pictured you as an older woman,"

"Yes," said Martha Jacques, studying her curiously.
"We really had in mind an older woman, one less likely

"To involve your hushand emotionally?"
"Exactly," said Grade. "Mrs. Jacques must have her

mind completely free from distractions. However"-he turned to the woman scientist-"it is my studied opinion that we need not anticipate difficulty from Dr. van Tuyl on that account."

Anna felt her throat and cheeks going hot as Mrs.

Jacques nodded in damning agreement: "I think you're right, Colonel." "Of course," said Grade, "Mr. Jacques may not accept

ber." "That remains to be seen," said Martha Jacques, "He

might tolerate a fellow artist." To Anna: "Dr. Bell tells us that you compose music, or something like that?"
"Something like that," nodded Anna. She wasn't
worried. It was just a question of waiting. This woman's

murderous jealousy, though it might some day destroy her, at the moment concerned her not a whit. Colonel Grade said: "Mrs. Jacques has prohably warned you that her husband is somewhat eccentric: he may be somewhat difficult to deal with at times. On this account, the Security Bureau is prepared to triple your fee, if we find you acceptable."

Anna nodded gravely. Ruy Jacques and money, too! "For most of your consultations you'll have to track him down," said Martha Jacques. "He'll never come to you. But considering what we're prepared to pay, this inconvenience should be immaterial."

Anna thought hriefly of that fantastic creature who had singled her out of a thousand faces, "That will he satisfactory. And now, Mrs. Jacques, for my preliminary orientation, suppose you describe some of the more striking hehaviourisms that you've noted in your hushand."

"Certainly. Dr. Bell, I presume, has already told you that Ruy has lost the ability to read and write. Ordinarily that's indicative of advanced dementia pracox, isn't it? However, I think Mr. Jacques' case presents a more complicated picture, and my own guess is schizophrenia rather than dementia. The dominant and most frequently observed psyche is a megalomanic phase, during which he tends to harangue his listeners on various odd subjects. We've picked up some of these speeches on a hidden recorder and made a Zinf analysis of the word-fre-

Anna's hrows creased dubiously, "A Zipf count is

pretty mechanical." "But scientific, undeniably scientific. I have made a careful study of the method, and can speak authoritatively. Back in the forties Zipf of Harvard proved that in a representative sample of English, the interval separating the repetition of the same word was inversely proportional to its frequency. He provided a mathe-matical formula for something previously known only qualitatively: that a too-soon repetition of the same or similar sound is distracting and grating to the cultured mind. If we must say the same thing in the next paragraph, we avoid repetition with an appropriate synonym. But not the schizophrenic. His disease disrupts his higher centres of association, and certain discriminating neural networks are no longer available for his writing and speech. He has no compunction against immediate and continuous tonal repetition."

"A rose is a rose is a rose ..." murmured Anna.
"Eh? How did you know what this transcription was about? Oh, you were just quoting Giertrude Stein? Well,
I've read about her, and she proves my point. She admitted that she wrote under autohypnosis, which we'd call a light case of schizo. But she could be normal, oo, My husband never is. He goes on like this all the

time. This was transcribed from one of his monologues. Inst listen:

"Behold, Wille, through yorder window the symbol of your mitters defeat: The Rose! The rose, my dear Wille, grows not in murky sit. The smoly metropolis of yetset-year drove it to the country. But now, with the unsulfied skyline of your attoine use, which was to be the state of the country and the rose continues to offer bereaf to ou sdall, plodding humans. We see nothing in her hut a pretty flower. Her regretful therms florewer declare our inspet domainness, and her lack of boney chiedes our gross sensuality, can set the fruit of the rose and second ber rollen. "At

can eat the trust of the rose and spread ner potten.

Mrs. Jacques looked up at Anna. "Did you keep count? He used the word 'rose' no less than five times, when once or twice was sufficient. He certainly had no lack of mellifluous synonyms at his disposal, such as 'ted flower,' 'thorned plant,' and so on. And instead of savine 'the red rose returns' he should have said.

'ted flower,' 'thorned plant,' and so on. And instead of saying 'the red rose returns' he should have said something like 'tt comes back'."

"And lose the triple alliteration?" smiled Anna. "No, Mrs. Jacques, I'd re-examine that diagnosis very critically, Everyone who talks like a note isn't necessarily insane."

A tiny bell began to jangle on a massive metal door in the right-hand wall.

"A message for me," growled Grade. "Let it wait."

"We don't mind." said Anna. "if you want to have it

"We don't mind," said Anna, "if you want to have it sent in."
"It isn't that. That's my private door, and I'm the only one who knows the combination. But I told them not to interrupt us, unless it dealt with this specific interview."

Anna thought of the eyes of Willie the Cork, hard and glistening. Suddenly she knew that Ruy Jacques had not been joking ahout the identity of the man. Was The Cork's report just now getting on her dossier? Mrs. Jacques wasn't going to like it. Suppose they turned her down. Would she dare seek out Ruy Jacques under the noses of Grade's trigger men?

"Damn that fool," muttered Grade, "I left strict orders ahout being disturbed. Excuse me." He strode angrily toward the door. After a few seconds

of dial manipulation, be turned the handle and pulled it inward. A hand thrust something metallic at him. Anna caught whispers. She fought down a feeling of suffocation as Grade opened the casset and read the

message.

The Security officer walked leisurely hack toward them. He stroked his moustache coolly, handed the hit of paper to Martha Jacques, then clasped his hands behind his back. For a moment he looked like a glowering horze statue. "Dr. van Tuyl, you didn't tell us that you were already acquainted with Mr. Jacques. Why?" You didn't als me."

Martha Jacques said harshly: "That answer is hardly satisfactory. How long have you known Mr. Jacques? I want to get to the hottom of this."
"I met him last night for the first time in the Via

Rosa. We danced. That's all. The whole thing was purest coincidence." "You are his lover," accused Martha Jacques,

"You are his lover," accused Martha Jacques.
Anna coloured. "You flatter me, Mrs. Jacques."
Grade coughed. "She's right, Mrs. Jacques. I see no sex-based espionage."
"Then maybe it's even subtler," said Martha Jacques.
"These platonic females are still worse, because they sail under false colours. She's after Ruy, I tell you."

"I assure you," said Anna, "that your reaction comes as a complete surprise to me. Naturally, I shall with-draw from the case at once."

"But it doesn't end with that," said Grade curtly,
"The national safety may depend on Mrs. Jacques'
peace of mind during the coming weeks. I must ascertain
your relation with Mr. Jacques. And I must warn you

that if a compromising situation exists, the consequences will be most unpleasant." He picked up the telephone. "Grade. Get me the O.D." Anna's palms were uncomfortably wet and sticky. Sbe wanted to wine them on the sides of her dress, but then

decided it would be better to conceal all signs of nervousness.

Grade barked into the mouthpiece. "Hello! That you, Packard? Send me—"
Suddenly the room vibrated with the shattering impact

Suddenly the room vibrated with the shattering impact of massive metal on metal.

The three whirled toward the sound, A stooped, loudly dressed figure was walking away

from the great and inviolate door of Colonel Grade, drinking in with sardonic amusement the stuporous faces turned to him. It was evident be had just slammed the door behind him with all his strength. Insistent squeakings from the teleset stirred Grade

into a feeble response, "Never mind . . . it's Mr. Jacques . . ."

The wavet ugliness of that face verged on the sublime. Anna observed for the first time the two born-like provideseases on his forchead, which the man made provides the substitution of t

Like a phantom voice, Matthew Bell's cryptic prediction seemed to float into ber ears again: "... much in common... more than you guess..."

There was so little time to think. Ruy Jacques must have recognised her frontal deformities even while that tassellated mortar-board of his Student costume had prevented her from seeing his. He must have identified her as a less advanced case of his own disease. Had he foreseen the turn of events here? Was he here to protect the only person on earth who might help him? That wasn't like him. He just wasn't the sensible type. She got the uneasy impression that he was here solely for his own amusement—simply to make fools of the three of them. Grade began to sputter. "Now see here, Mr. Jacques.

It's impossible to get in through that door, It's my private entrance. I changed the combination myself only this morning." The moustache bristled indignantly. "I must ask the meaning of this."
"Pray do, Colonel, pray do."

"Pray do, Cotonel, pray do."
"Well, then, what is the meaning of this?"
"None, Colonel. Have you no faith in your own syllogisms? No one can open your private door but you. Q.E.D. No one did. I'm not really here. No smiles? Tak tak! Paragraph 6, p. 840 of the Manual of Permissible Military Humour officially recognises the

paradox."

"There's no such publication—" stormed Grade, But Jacques hrushed him aside, He seemed now to notice Anna for the first time, and bowed with exagger-ated punctilio. "My profound apologies, madame. You were standing so still, so quiet, that I mistook you for a rose bush." He beamed at each in turn. "Now isn't this delightful? I feel like a literary lion. It's the first time in my life that my admirers ever met for the express purpose of discussing my work."

How could be know that we were discussing his "composition," wondered Anna. And how did he open the door?

"If you'd eavesdropped long enough," said Martha Jacques, "you'd have learned we weren't admiring your 'prose poem'. In fact, I think it's pure nonsense." No, thought Anna, he couldn't have eavesdropped, because we didn't talk about his speech after Grade AUTHENTIC SCIENCE FICTION

opened the door. There's something here—in this room
—that tells him.
"You don't even think it's poetry?" repeated Jacques,
wide-eyed. "Martha, coming from one with your
scientifically developed poetical sense, this is uterly

scientineany developed poetical sense, this is utterly damning."
"There are certain well recognised approaches to the appreciation of poetry," said Martha Jacques doggedly. "You ought to have the autoscanner read you some

"You ought to have the autoscanner read you some hooks on the esthetic laws of language. It's all there." The artist hlinked in great innocence. "What's all there?"

"Scientific rules for analysing poetry. Take the mood of a poem. You can very easily learn whether it's gay or sombre just hy comparing the proportion of low-pitched vowels—u and o, that is—to the high-pitched vowels—d, e and L"

"Well, white do you know shout that!" He turned a wordering face to Amm. "And also' right! Come to two wordering face to Amm. "And also' right! Come to two wordering face to Amm. "And also' right! Come to two words are high-elicided, while in his II Penarowa, they're mostly the properties of the properties. The properties of the prope

"Drivel," sniffed Martha Jacques. "Science—"
"—is simply a parasitical, adjectival, and useless
occupation devoted to the quantitative restatement of

Art, finished the smiling Jacques. "Science is functionally sterile; it creates nothing; it says nothing new. The

scientist can never be more than a humble camp-follower scientists can rever be more than a humble camp-follower of the artist. There exists no selectific truium that hasa't been anticipated by creative art. The examples are of perspective in the fifteenth century; but Kallierates applied the same laws two thousand years before in designing the columns of the Parthenon. The Curies thought they invented the idea of 'half-liffe—of a thing vanishing in proportion to its residue. The Egyptians tuned their lyre-strings to dampen according to the same formula. Napier thought he invented logarithms entirely overlooking the fact that the Roman brass workers flared their trumpets to follow a logarithmic

"You're deliberately selecting isolated examples,"

retorted Martha Jacques.

"Then suppose you name a few so-called scientific discoveries," replied the man. "I'll prove they were scooped by an artist, every time." "I certainly shall. How about Boyle's gas law? I suppose you'll say Praxiteles knew all along that gas pressure runs inversely proportional to its volume at

a given temperature?

"I expected something more sophisticated. That one's too easy. Boyle's gas law, Hooke's law of springs, Galileo's law of pendulums, and a host of similar hogwash simply state that compression, kinetic energy, or whatever name you give it, is inversely proportional to its reduced dimensions, and is proportional to the amount of its displacement in the total system. Or, as the artist says, impact results from, and is proportional to, displacement of an object within its milieu. Could to, displacement of an object within its milieu. Could the final couplet of a Shakespearean sonnet enthral us if our minds hadn't been conditioned, held in check, and compressed in suspense by the preceding fourteen lines? Note how cleverly Donne's famous poem builds up to its crash line. [It tolls for thee!" By blood, sweat, and genius, the Elizabethans lowered the entropy of (Continued on page 71.)

SCIENTIST AND CENSOR

Should they Meddle?

by William F. Temple

LANCING over a small pre-war and now defund the other day I came across an article by myself of " produced in 1897; and H. G. Wells' "

I these poor freaks have to be killed off at the end? The si fr. Hyde from "Dr. Jekyll and Mr. Hyde" was pamped full of

first film scenario swatted her like a fly. I proteste agreed and managed to get my climax substituted

I might have known I wouldn't get away with it. But the re executioner is not a film character nor even the script-writer. I st ands behind the seenes, still roughly where he was before the way. Down came the censor's are and my creature's head rolled. It ha to. There must he no question about a creature unnaturally how ever surviving. We are not the masters of file and death, pronounce the contor, and we must not easume that nower fearout in war.

seems).

Strange that I, who once knew the answer, now do not. (My protest about my film was based, not on moral principles, but or those of good story-telling.) I survey the results of scientists "meddling" since those days and I see penicillin and the atomis boeth, streetomyxin and the V-2.

And somehow I feel that the good and bad of it, like the light and shade of life, can never be separated. And that neither the scientist nor the censor really knows any more about it than I.



In the journal Intercuren, published in Carchoslowshia, two Roussian biologistic kinn for have discovered a mental of converting visuous to bacteria and back agains. Agant from the possible application; in the control of the properties of the properties of the control of the properties in procedure. Virsues are creatures which my or may not be living. Some hiologists believe they represent a mide way stage between living and non-drining matters, behaving convenience as one and socnetismes as the other. The Kussian work, in a way, is also the creation of IEG, for bacteria are most definitely all the control of the creation of IEG. For bacteria are most definitely all the control of the creation of IEG, for bacteria are most definitely all the control of the control of the creation of IEG. For bacteria are most definitely all the control of the creation of IEG. For bacteria are most definitely all the control of the creation of IEG. The control of the control of the creation of IEG. The control of the control of IEG. The control of IEG. The control of

Never Been Kissed

by E. Everett Evans

TAMES FOXE stood on the tarnase at Termanas Field watching the New York come down through the tenuous atmosphere. He never tired of this sight of a great liner coming in from Space. The tenendous flares of her farking rockets; the Jockeying for the helly landing; the huge tractors towing her up to the tarnase after she'd landed and shut off her rockets.

He watched the passengers disemhark. This, too, was always interesting. Sight of new faces was a sensation of pleasure to anyone so far away from Terra.

Sudday his extractor was rivered to a lovely femining.

Suddenly his attention was riveted to a lovely feminine figure coming hesitantly down the gangplank. She was looking about her in a bewildered manner. He started toward her, and her startling beauty made itself more

apparent to him.
"Wheeco!" he whistled. Earth was certainly making

them more heautiful every year.

He went up to her.

"Are you assigned yet, Miss?"
"No, sir." She was very shy.
"What is your classification?"

"Speed typist, sir."
She fumhled in her bag and she hrought out her

passhook.

He glanced through it quickly, whistled again with amazement. She was rated highest efficiency, plus,

amazement. She was rated highest efficiency, plus,
"I need an expert typist," he said. He smiled, "Would
you like to work for me?"
She elanced up at him and he smiled again as winningly.

She glanced up at him and he smiled again as winningly as he could while she was studying him.
"Yes," he voice was low, hut cager. "Yes, sir, I think

"Yes," he voice was low, hut eager. "Yes, sir, I this it would be nice to work for you."



"All right, I'll fix it. But first, you don't need to call me 'sir' all the time. My name's James Foxe, hut my friends all call me 'Jimmy.' I hope you'll he one of

She smiled shyly again. "I hope so, too . . . Jimmy."
He picked up her has just as she stooned for it. His arm

He picked up her hag just as she stooped for it. His arm hrushed against the satiny-soft texture of hers, sending a current of pleasure sensations racing through him.

electric typewriter. She gave a little cry of recognition.
"That's the kind I like hest. I'm so glad you have one of them, instead of one of the old models. I can work much faster on this."

work much faster on this."

She stood hy it, smiling, and he marvelled at the way she ran her hands over it lovingly, caressingly.

she ran her hands over it lovingly, caressingly. Suddenly he found himself wishing she would stroke him in the same way. Why should he wish such a thine?

He went to his own desk and picked up a number of sheets of paper, filled with words and numbers, "These are what we call 'specification lists'," he

explained. "We go over them from time to time, making changes, taking out certain items, adding others. Then they have to he recopied absolutely letter perfect. That is important. These have heen revised and are ready

She nodded her head. He liked the way her silky, hlue-black curls hobbed and danced with the movement.

He handed her a number of the pages and he explained ahout the page numbering, the margins, the spacing. She took the pages and started typing. Her fingers fairly flashed over the keys of the electrotyper, and when she glanced up at the end of the first page she found him eyeing her with amazement.

found him eyeing her with amazement.

"Is anything wrong?" Her voice was husky with
the fear that she had displeased him already.

"Wrong? Good Lord, no!" The words were almost an explosion. "I just never saw anyone type that fast hefore!"

He could tell this pleased her, for she was smiling once more, though still shyly, and the fear-look was gone from her eyes.

"They said at school I was the fastest they'd ever had, ut I wouldn't know for sure." "I can helieve you are. Let me see your first page,

please."

He studied it carefully and he proofread it for mistakes. There were none. Also, the page was a model of neatness. He grinned as he handed it back, "The Chief won't

helieve it when I tell him ahout you." That pleased smile was lurking about her lips as she

went back to work.

When dusk brought the closing hell's sound, he took her out and found her a rooming-place near the office. He explained about the hours of work and made sure she knew how to get to the office huilding, "Goodnight, Barbara," he smiled.

"Good night . . . Jimmy," he harely heard as he

moved away, During work the next morning Foxe turned to a little box that stood on a small stand beside his desk. He reached out a hand toward it, then stopped and swung about to face his new typist.

"Does it hother you to have music playing while you work, Barhara?"

"I don't know," her voice was doubtful. "I don't

think I ever heard any." "Never heard . . . oh, you mean while working. Well,

I like it, so let's try it." He twisted a couple of knohs, and suddenly a cascade of beautiful melody was spilling out into the room. She stopped working in amazement, a fascinated expression on her face.

"What is that?" she asked breathlessly. "That's the Grieg Piano Concerto." "Ob."

The word was small and wondering. She sat, hands idle in her lap, rapt in the wonderful sounds until the number was finished

"What's a grieg piano concerto, Jimmy?" Her eyes

were wide with perplexity.
"Good Lord, Barhara, don't you know anything at all about music?" She shook her head, eyes clouded. He realised she thought he was displeased with her. He'd never seen

anyone so shy, so touchy; had to watch every word and gesture.

"What did they teach you at that school?" There was exasperation in his voice, "I didn't suppose there

was anyone who'd never heard about music "They started me in on reading and spelling and grammar. Then some elemental arithmetic. After that

they started me in on typing. They taught me how to care for and repair my machine, and also how to care for my body. That's all."
He shook his head in dishelief. "Didn't you ever have

any fun ?" "What is 'fun'?"

"Fun is enjoying yourself doing something you don't have to do, just for the pleasure you get out of it."
"Oh, yes, then I've had fun." Her eyes shone momentarily, then they dropped shyly again. "But I'm

afraid you'll laugh at me if I tell you ahout it."
"No," he assured her earnestly, "I won't laugh,"

"I used to dream about people

"Little Miss Ignorance," he jeered, hut so tenderly that no offence could possibly he taken from his words.

"Could I learn shout music?" "You certainly can. I have quite a large collection of recordings. I'll take you home with me after work

and play some for you."

She looked at him doubtfully. "You're sure it is

all right for one like me to go with you outside of work ?"

"It most certainly is! I'll be glad to help you learn something about music appreciation."

NEVER BEEN KISSED

She turned back to her work happily, and her fingers on the typewriter keys were almost a hlur of speed the rest of the day.

TOXE was just turning the corner of the hall going to his office the next morning when he saw a tall, harsh-evd, brassy blonde going through the doorway. Betty Bowser. He wondered why she was going into his office. It couldn't he for any good, he was sure, He hurried up and he eavesdropped shamelessly outside his door.

"Look, Mouse," he heard tones as harsh and hrassy as the owner's looks, "you lay off Jim Foxe. I saw him

He could imagine shy, timid little Barhara shrinking back in her seat at that cold, unfriendly, commanding

tone. Then he heard her voice, low and tremulous.
"I . . . I'm sorry. I didn't know. I just got here
yesterday."

"Fast worker, eh?" the hrassy voice succred. "Well, I'm telling you again, lay off! If I catch you going out with him again, there'll be plenty of trouble—and all from me to you."

"Thank you for telling me, Miss," the small, sweet voice was apologetic and conciliatory. "I don't want ever to overstep my place, and you may be sure I shall

he careful from now on, not to do so."

Foxe heard a snilf, and there was a pause. Then,
"Either you're a dumh "un, or you're mighty deep.
I don't know which yet." Another pause, and he
guessed that Bowser was studying the fittle, pathetic
figure hefore her. "All right, I can-see you're just
dumh."

The blonde turned and walked out of the office, straight into the arms of James Foxe.

He shook her mercilessly until she almost screamed.

"What do you think you're doing?" Foxe's voice
was low, yet anger was making it hard for him to control

Yes, you saw me first, hut I saw you second. I've made it very plain that I want nothing to do with you. I can't stand anyone who acts like you do. Now get out

and stay away from me—and from Barhara Greenwood! I mean that hoth as a threat and a promise that you'll not like what happens if you don't."

He gave her a shove and she stumbled away down the hall. Foxe went into his office.

Barhara was trying to work, hut her eyes were tear-misted and she was typing at a bare hundred and fifty

words a minute. Foxe went up to her and he put his hands over hers, gently, stopping the work. She looked up in alarm, hut he smiled so companionably her eyes gradually lost

"Don't you ever give a moment's thought to that hussy's words, Barbara," he commanded softly, "She has no hold on me whatsoever, and never did. If you want to go out with me when I ask you to, there is absolutely no one who has the right to tell you 'No.' You believe that, don't you?"

She searched his grey eyes, found a measure of helief in them. She smiled tremulously hack at him, and

relief dried her tears

Come with me."

"I'm so glad," she whispered, so low he harely heard. "Just to show the whole world," he grinned then, "I'll ask you now what I was on my way to ask you when I came in. Will you go to the video with me tonight? They're hroadcasting an opera from Terra— it's one of the greatest pieces of music ever written, and different from any I played for you last night." The frightened look came hack into her eyes

"I want to . . . so much . . . Jimmy . . . hut I'm afraid.

Are you sure it's all right?"

"Poor Little Miss Ignorance," he fondled her satinsmooth hands. "You've got to forget about that blonde and her talk. I told you there's nothing anyone can or would say or do. And I'll prove it to you, right now,

He half-lifted her from ber seat, and with his hand on ber arm led ber into the private office of John Storer.

"Chief, this is my new typist, Miss Barbara Green-wood, just in from Terra. She's a whiz, too. Fastest and most accurate typist I've ever seen."

The fatherly-looking figure behind the desk rose and

"Welcome to our group, Miss Greenwood," be greeted "We hope you'll like it here and want to stay with

She smiled shyly and made a half-curtsey, but said nothing.

"I brought ber in bere just now mainly to bave you explain something to ber," Foxe resumed. "I found out yesterday that she knew nothing about music, but liked it from the first time she beard any when I turned my radio on. So I took her to my place last night and played some records for ber, explaining about them. Today, that loud-mouthed Betty Bowser went into my office when I wasn't there, and half-scared Barbara into bysterics by threatening all sorts of things if she ever went anywhere with me again. I told Bobby no one had any right to tell her what she could or could not do in cases like that, but she only half believes me. I want to take her to bear the broadcast of Tristan Und Isolde tonight, but she's afraid to go. Tell ber, please; whether it is right for her to do so, or not."

Storer turned to Barbara, and his smile was more

stay bere always."

atherly than ever. "Here on Mars, my dear, the only real law of conven-tion is that you do not overstep the bounds of good

taste. If you want to go anywhere with Jimmy, you go right ahead. No one has the right to stop you. You'll be both safe and bappy with the young pup."

The pleasure sensation came back to Barbara again.

She smiled ber thanks. "I'm so glad you told me, sir. It makes me very happy. And I do like to work bere, and I bope I can

HE opera that eight was another revelation to Barhara. She sat so still in her seat she hardly

ment came out from time to time. So, too, was the dancing to which Foxe introduced her

afterwards. The rhythmic movements were so completely in accord with her very heing, that she soon wished

Foxe was hegioning to he almost amazed at the quickness with which she acquired and retained knowledge of new subjects. He said something of this as they were walking slowly back to her room. "I don't know soything about how or why," she

shook her head in answer to a question. "I hadn't realised how much there was I dido't koow. But now, ence you tell me things, they just seem to stick in my head. I got a book on music from the library and read it last night, and I seem to remember everything that was in it. It was the same with the dancing; once you showed me the steps, it seemed as though I'd koown them all my life."

"Eidetic memory, probably," he mused aloud, Then a thought struck him. "How long does it take you to read an ordinary page of print?"

"Why, I doo't really know. I just seem to glance at it and know what's there." She looked up in surprise.

"Doesn't everyone read like that?"
"I'll say they don't. I can't. You're something special,

He put his arm about her, and she, having become used to the gesture while dancing, seemed to think it

nothing unusual while mcrely walking along the street. She snuggled up against him in delight. When they reached her room, they continued their

talk.

He put up one hand against her soft, warm cheek, which she ruhbed gently against the tenderness of his touch. Suddenly he exerted a hit of pressure, turned her face toward his, and his lips touched hers.

Barhara squirmed a hit at the first contact, then as the

delight of it electrified her, she yielded herself completely, She returned his kiss with equal intensity.
"Oh, I like that," she purred when he released her at

long last. "What was that?"

He was completely dumbfounded. Imagine anyone not knowing a thing like that! Her naivete and ignorance

of commonplaces constantly put him off-halance.
"That, Little Miss Ignorance," he recovered at last,
was a kiss. Don't tell me you never heard of kissing."
"I think I read the word once, but I never knew what

it was." Of her own accord she put her arms about his neck and lifted her lips to his for another kiss.

WHEN Foxe finally reached his office the next morning, Barhara was at her desk, her electro-typer nearly dismantled, and herself husily en-

gaged with a number of tools.

"What the . . . ?" He looked the amazement he felt.

She glanced up and her face was troubled. "I don't know what happened. It was working per-fectly when I finished last night, but this morning the moment I tried to use it there was a grinding noise, and

It stopped and wouldn't start up again."

She soon had it completely apart, as he watched, and she began the rebuilding joh, carefully scrutinising each piece as she replaced it. He remembered her saying she'd been taught to care for and repair her machine,

and it was apparent she was as expert in this as she was Suddenly she pounced on a bit of metal among the

miscellany of parts strewn about her desk.
"That's strange," she pursed her lips as she studied
it. "This doesn't belong in here. How do you suppose

it got in my typewriter?"

His eyes narrowed. "Give it to me. I have an idea."

He left the room and ran into another. He strode

up to the desk and addressed the brassy blonde behind it. "Here's something of yours, Betty. You should be more careful where you drop things."

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She looked up at him, startled. She started to deny that it was anything of her doing, but the determined, angry look in his eyes stopped the protest before it was

"Pack your things and get out!" he commanded.
"You're all through here. I'll get your credits and your papers. Be ready to leave when I bring them back." He stalked angrily from the room and into the auditor's office. When he returned he gave one more emphatic

comm "I told you once before to lay off Barbara Greenwood. Now I'm telling you again. You do one more thing, or

say one word to or about her, and you'll be shipped to Mercury. Maybe that will be hot enough for a shedevil like you.

TAMES FOX came into John Storer's office one day, his face showing trouble. "Chief, the big electronic calc's out of whack. Won't give the right answers at all."

The other came to his feet in consternation. As the two raced into the calc room, Foxe explained briefly. They made a careful examination, and questioned the operators. It had suddenly gone hay-wire, that was all

anyone knew. Why, was a mystery.
"Have to video Terra for a Technic to come and fix it." Storer grunted as the two returned to his office.

"How you coming with those computations on the Monorail job?" "Only about half done, and there's that Danaris

Canal bridge job, too. That's barely started."
"Ouch! And there's a time-limit contract on both of them." The answer from Terra was bad. It would be im-

possible, they reported, to send anyone to Mars to fix for two months at the very earliest.

"Fat lot of good their guarantee does us," Foxe growled. "Well, we'll just have to get everyone possible working on the dope by hand. But we'll never make those jobs on time now."

"We've got to do it, somehow, someway, Jimmy, How, I don't know any more than you do. Just do the hest you can. Hire any extra mathmen you can."

Foxe was visibly worried as he returned to his own office. Barhara, apparently quick to catch his moods, asked why. He explained,

"Can I help any?"
"Don't know how," was the lugubrious reply. But
a moment later he hrightened. "Hey, I forgot your special abilities. Drop your ordinary work, go to the library, and start honing up on calculus and tensor problems. In a few days you can really he of a lot of help."

Late that afternoon a hrainstorm struck Foxe, and he ran into Storer's office, dragging Barhara with him. "Say, Chief, I've got an idea. What say we let Bobby

have a crack at fixing that hig calc. She could study up on electronics for a few days, and I'll bet she can fix it!" "Have you gone nuts, Jimmy?" The elder peered at him closely. "That's no joh to entrust to an amateur. It's much too complicated. There're only ahout a dozen Technies on Terra who can fix a calculator."

"I'll still het she could do it. Look, Chief? Bohhy reads a page at a glance, and she has eidetic memory. She's trained to care for and repair machines even if

she hasn't yet tackled anything as complicated as that "You certainly have faith in her. What do you say, Barhara?"

Eyes gleaming in anticipation, she nodded vigorously, "I'd like to try it. I've worked on some pretty complicated

electronic hodies." Storer considered the matter for some time, frowning

in concentration. They needed that machine, no fooling
-how they needed it! Abruptly he came to a decision, "It's worth taking a chance on. I'll get some of the hest texthooks, and the hlueprints of the machine." For the next couple of days Barbara did little hut

read. Then she studied the hlueprints of the huge, room-sized calculator. Finally, she spent one whole day

AUTHENTIC SCIENCE FICTION

just looking at it and comparing it with the lay-out, Finally she said she thought she was ready to attempt

the renair.

Carefully, methodically, she started dismantling the section thought to be off. She carefully marked each part she removed to correspond with a mark she put on the blueprints. Each she also thoroughly examined to see that it was still the correct shape and dimensions, and had been correctly booked-up according to the

specifications.

Days passed, and still she worked ceaselessly. Other engineers and technicians, hearing about what she was attempting, came in hriefly to watch. Mostly they pooh-poohed the idea that she could fix it. One or two grudgingly admitted she was going at it the right way, but doubted the final outcome.

"The big slugs are just jealous!" Foxe exploded.
"None of 'em have brains enough to fix the thing, so

they won't concede that anyone else can either."
"Calm down, Jimmy," Storer advised, laughing. "I'm
satisfied now that Barbara knows what she's doing. Whether she gets it working or not is another matter.

But I'm not taking ber off the job," But as the days grew many it was Barbara herself wbo

became more and more distressed.
"I can't do it, Jimmy," she sohhed disconsolately in

his arms. "It's just too much for me. I've learned the operating principle, but I'm just not enough of a technician to know how or where to look for the trouble."

meen to know now or where to look for the trouble."
"Nonsense," be declared loyally, kissing away ber tears. "I'm betting on you, remember? My Little Miss Ignorance is going to show them all she has the best hrain on this planet. You just keep plugging, Bohby—you'll win out!"

And so, plug along she did. Bit hy hit she hegan to understand what was supposed to be accomplished by each of the intricate parts, and how it should work as

a whole. She knew, now, exactly what to look for, and how to find it.

One glorious day, she found the trouble. As is so often the case, it had been caused by a very small thing indeed. A wire-end had become unsoldered, and twisted about the wires of a nearby Selectron grid, shortcircuiting it.

Quickly she fastened the wire where it helonged,

replaced the hurned-out unit, and hegan testing. But that Selectron section would not work.

But that Selectron section would not work.

Over and over she adjusted and tested. It was out
of place something it couldn't programme, correctly

of phase somehow. It couldn't "remember" correctly
the integer fed into it. Someway, hefore the electrons
reached the grid, the hars and rings hecame negatively
eharged, and refused them.
She tried replacing various tuhes, trying to see if one
of those was damaged. As far as she could tell they

TOXE came in one day to find her working away, tears streaming from her eyes, saying tonelessly, "I can't do it; I can't do it"—hut still working doggedly. But perseverance, coupled with such tremendous

latent mental abilities as Barbara was slowly beginning to demonstrate she possessed, must produce results. After she had made a hundred trials—and failures—be sat down and analysed what she had done each time, and the results she had obtained. Before long she had a patternised pieture of why those various attempts had

a patternised pieture of why those various attempts had not worked.

Then, hy pure deductive reasoning, she worked out the phasing that should be necessary. She found the

cause, corrected it . . . and the Selectron "remembered"; positive eharges remained positive, and the cells accepted them. Satisfied at last, she hegan the tremendous job of

Satisfied at last, she hegan the tremendous job of reassembling the entire machine. After further arduous days it was done.

She came into Jimmy's office her dress torn and filthy with grease and grime. Her hair was a mess, her face streaked with more of the grease and dirt. She was utterly weary, but managed a smile of satisfaction.

"Jimmy, it's all ready to try out. Oh, please, please, Jimmy, go quickly and see if it works. And Jimmy, I couldn't stand it if it doesn't!"

He ran into the cale room. When her slower steps had caught up with him he was feeding integrals of a tensor problem into the machine. Tuhes lighted, relays clicked, and grids, condensors, coils and other parts seemed to be functioning as he watched closely,

Finally the answer came out.
"Yeow! It works, darling, it works!"

He grabbed her around the waist. He swung her off the floor, hugged her and kissed her excitedly and

enthusiastically.

John Storer and several others, hearing the commotion, came running in. Foxe triumphantly showed them the problem and the answer.

"It's a fairly simple one. I know, but it shows the

"It's a fairly simple one, I know, but it shows the thing's running. Somebody feed it a really hard one.

I'm still hetting it'll answer correctly."

Barhara was lauded and feted by the entire organisation. Yet through it all she remained demure and shy. She never, in any way, attempted to take advantage of the new stature she was now accorded, although her

the new stature she was now accorded, although her pleasure in their praise was evident.

John Storer hegan the habit of calling her often into his private office, not only for more and more exacting work—she was promoted from a mere typist's job—hut

just to talk to her. It was clear that he, too, was falling under the spell of her charm, and had a real respect for

her growing mental abilities.

Foxe and Barhara continued to go around together during some of their free hours, while their time together in the office was a continual delight because of their enjowment of each other's fine personality.

They went to ball games, to loctures, to concerts, to the video, and for long walks during which they talked

NEVER BEEN KISSED

with increasing intimacy on almost every subject under distant Sol.

Because of the pleasure sensations she received from these new cultural experiences, and from the new sciences she was discovering and studying from books, Barbara paid little attention to her physical surroundings. The fact that she was on an alien planet apparently meant nothing to her. The ancient ruins she gave scarcely a glance. The ever-present iron-rust sand received no notice. Her work, music, dancing, study . . . and ber companionship with Jimmy . . . these were now ber

"I get more amazed every day at the simple, ordinary things about which Barhara has never heard," Foxe said to John Storer one day, as they were talking in the latter's office. "I just can't imagine anyone, anywhere, leading such a sheltered life as she must have done, to

be so ignorant of so many commonplace things."
"I don't know what sort of a school she went to."

the elder replied thoughtfully, "but it certainly didn't teach her much about life. Just the things she needed for her work, apparently. I think it was a mistake." "You and me both, Chief. But it is certainly wonderful the way she grasps the essential details of a new subject, once it's presented to her. What a brain! I

sometimes almost have a feeling of inferiority when I see how that flashing mind of bers digests facts so swiftly." It was, indeed, hecoming plain that Barhara was becoming far more than the "Little Miss Ignorance" Foxe still affectionately called her. With growing knowledge, and with the realisation that she could do such exacting things as fixing that calculator, she gradually lost some of her timidity, yet never overcame her endearine modesty.

HEY were returning in a taxi from another evening excursion, and as was now usual, be kissed her.
Suddenly be straightened with determination.
"Bobby, darling, I must have you all for myself for always. Not just during work and these too-short

TENTON PLONTON

evening hours once or twice a week. I want to marry you."

At these words she shrank hack into the far corner of the seat. Her eyes clouded with tears of pain and shock. Her hody shuddered as though agued.

"Oh, no, Jimmy! No! You can't mean that!" He looked at her with puzzled eyes. He'd never heen

He looked at her with puzzled eyes. He'd never so startled by anyone's reaction.

His hands moved aimlessly toward her, hut this time without touching.

without touching.
"Why, Bohhy, why not? We've so much in common.
We always have such fun together. And you must know

We always have such fun together. And you must know how I feel shout you. I haven't said it hefore in words, I know. But I'm sure my every look and action must have told you how much I love you."

She gave a little moan of pain and shook her head

in slow negation. Her curls danced even while the pain in her heautiful eyes deepened.

in her heautiful eyes deepened.
"But I never did, Jimmy," the small voice was a wail.

"I'd not have continued going out with you if I'd known.
You must helieve that!"
"But why, darling? We'd fit so perfectly together.

It's been that way ever since the first day we met. Remember?"
"I thought you knew, Jimmy. Honestly, I thought

you knew?"

The car stopped hefore her apartment house. She jumped out, and held the door so he couldn't follow.

"You go ask Mr. Storer. He'll tell you why I can't

possibly marry you. I'm sure he knows."

She turned and ran swiftly into the house.

He sat silently for a moment. What was he supposed to have known? Finally he gave his chief's address to the driver.

the driver.
"What on Earth, or Mars, rather, makes you get me
out of hed at this hour?" Storer asked, admitting him

to his apartment.

"It's Barhara," said Foxe. "I'm all at sea, and she said you'd know the answer."

"Answer to what?"

NEVER BEEN KISSED

"Well, I asked her to marry me, tonight, and she hroke it off sharp, and ran, saying it was impossible, and

didn't I know why she couldn't possishy marry me."
Storer looked puzzled. "Should I know why?"
"Apparently. Up to now it's always been her that
didn't seem to know much ahout anything, just as if
they never taught her at school; and now, for the first
time, she accuses me of not knowing something. I..."
Storer looked startled. "Immy! You're right. There

Store looked startled. "Jimmy! You're right. There were dozens of little primary things she didn't know. As if she'd missed out on the elementary classes. Can

Foxe paled. "You don't mean that she . . ." Storer groaned. "Of course! That's it. She naturally

wouldn't know ahout the rest of us, if she missed her first grades. Heavens, Jimmy, no telling what she'll do. She might try anything, without the primary emotional foundations she should have."

Stored dived for his clothes, "We've got to get to her!"
In a moment he was ready, and together the pair of
them dashed to the street, where the taxi still waited.
Foxe gave Barhara's address. "Hurry, driver! It's a

Foxe gave Barharu's address. "Hurry, driver! It's a matter of life and death!"

Both men sat tense and silent as the taxi tore through the deserted streets. Neither spoke until the eab serecehed to a balt before Barhara's apartment. Then they piled out and ran into the huildine. Foxe iabhed the held

under her name, and waited in an agony of suspense.
There was no answer.
"Never mind that!" snapped Storer, "We've got to

"Never mind that!" snapped Storer. "We've got to hreak in."

He pushed one hig shoulder against the door, and Poxe hurled his own weight against it also. The lost snapped and cataputted them inside. They raced down

rose unred in own wight against it also. The fock snapped and catapulted them inside. They raced down the hallway to Barbara's door, and Storer pounded on it. There was no response, and without waiting another second, they plunged against it and hurtled it inward. Lying on the floor near the opposite wall was Barbara, her head wound around with a loose coil of conner wire.

plug on an extension wire into the electric light socket.
"Quick!" shouted Storer. "She's trying to short-

circuit her brain!" Foxe hurled his hody forward, kicked almost savagely

at her hand, smashing the plug to fragments against the wall. Barbara screamed and went limp on the floor.

"Too late!" sohhed Foxe, dropping to the floor beside her and cradling her head in his arms. "No," said Storer. "Even if a contact was made, it

was only for a fraction of a second. There'd have been no time for a serious rise in temperature in the hrain. She's only fainted, I'm sure,"

It was true. Barhara's eyes opened almost instantly and she stared up at Foxe, then she threw herself into his arms and hegan sohhing wildly. "Why did you stop ie, Jimmy? I can't marry you! Don't you know I'm

only a robot? I'm not a human being at all." "Of course not," said Storer, almost roughly. "You ignorant little android! Nor are we."

She stopped sobbing. Slowly she lifted her head and

stared up at him. "What?" she said uncomprehendingly. "You're

". . . Human," finished Storer. "Naturally not. Nobody on Mars is human. Couldn't possibly live here if we were. We're all android robots. Didn't you learn that in your primary classes on Earth?"
"Primary classes..." she faltered. "What's a primary

class . . . ?"

Foxe clutched her to him and showered her lips with kisses. "Never mind what, Little Miss Ignorance," he said. "You missed them somehow, but it doesn't matter; I'm going to have a lot of fun teaching you what any android should have known the day she came off the assembly line!"

American Commentary

by Forrest 7. Ackerman

SO this German-born French gazelle named Gisele, late of Indo-China, was dancing around my living-room till early What has this got to do with science fiction?

Well, I might use the weak excuse that sf author Chas. Beaumont was accompanying her dances, that sf artist Mel Hunter was modelling her in his mind's eye, that sf film director Curt Stodmak moscuing her in his minus a eye, that it tim director Curt Scomise, was auditioning her for a part in one of his future pictures. Actually, Gisele was entertaining these guests at my post-preview party of a new scientifilm, at the present time nameless, for which I have suggested such titles as: "The World at Bay," "Element of Fear," "How Lone Left?"

It concerns a hungry metal (artificial element 161) which threatens to grow and throw the earth off balance. Appropriate to the air of authenticity with which the production has been imbued, I passed out copies of the current Authentic to Ray Bradhury, Ross Rocklynne, S. J. Byrne and the other celebrities present.

World Scene: In Italy, Fostus Pragnell's Green Man of Greypec's being translated..., Japan, I learn, several years and produced is being translated..., Japan, I learn, several years and produced Fiction Cubb has been established in Greece ... Finland and South Africa have been broadcasting Bradbury yarms. Russia has produced at fin rowel, Jine Warm Barth ... Germany has produced produced a til flores, an even a series of Conquest of Time and its first anthology of American of works, The Conquest of Time and Space . . ditto Israel, with Once Upon the Future . . the latest issue of the Mexican of mag, reprints the well-known British Mena

The Chief Librarian of the University of California, in Los Angeles, recently invited me to hanch and discussed ways and means for the establishment of a science-fiction collection second to none. (Correction: Second to one!) That means Authentic will, as well as in my personal files, be officially preserved for posterity in America!

Proof of the growing popularity of our favourite literature is the fact that my Agency, which handles the literary gutterial of some nitety or so of authors, placed over peior as many manuscripts on the world market in 1952 so in 1951

There is no truth to Coack Harri's rumour that Horace Gold allia Horrors Gold, will edit a natural magazine called Ghostor to good that fans will calain it more received. Nor will its subtile to good that fans will calain it more received in the factor of the factor o

(H.J.C.; We don't want your title being confused with one of our Senday papers. Forry!)

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FROM THE "LABORATORY" Rockets, as pictured in the world of television and the come

strips, are a blasting, clattering, crashing, burtling, zipping, zooming affair.

"Actually, the chap all wired up in the pressure suit is currently obtains second fiddle to the man in the laboratory coat. Case to

"Actuality, the chief an writer up in the pleasures unit is cliently highlying second fidalle to the man in the laboratory cost. Case to highlying second fidalle to the man in the laboratory cost. Case to sumple, rapid matched to the control of the control of the sample, rapid matched for determining the solubility and freezingpoint depression of gross in liquid mirrogen disoids." "No men-from-Maria suparaties for him. Researcher Rocker assembled an accurate apparates using only standard equipment generally available in the laboratory. With it but between the bowed that

s-f handbook

Q-Value — Effective energy produced in a swelear reaction expressed in terms of million electron volts.

Quantum—Amount of energy dependent upon the frequency of the radiation associated with electromagnetic waves by the relation Q=hr, where h is Planck's constant and r is the

Radical—A group of atoms which retains its form throughout a chemical reaction.

Radioartisty—Emission of charged particles during the spontaneous decay of unstable atomic nuclei such as radium.

Radiar rector.—The line joining a planet with the centre of its orbital area.

Rectifier.—Apparatus for the conversion of an alternating

conversion or an assernating current to a direct current.

Relativity—The concept that absolute motion cannot be determined, and the corollaries that follow from this. It has two basic axioms: (a), that the webcity of lizhfu is constant for

all observers; and (b), that natural laws operate in the same way for all observers. Most significant corollaries are: (a), the Fitzgerald-Lorentz contraction (see issue No. 24); (b), that the mass of a body increases with

Figure 20-1, ceents contraction (see issue No. 24); (b), that the mass of a body increases with its velocity; and (c), that mass and energy are different aspects of the same thing. The specus theory of relativity deals with the observable phenomena in two states in uniform motion evaluations are the contractions of the same contraction of the contractio

systems not in uniform motion. Recent experimental work is throwing some doubt on the validity of certain relativistic dogmata.

general theory of

Rest many—Mass of a body when at rest, as opposed to its increasing mass with increasing velocity.

Resultant—The single force

identical in effect with the effect of several co-acting forces.

Rocket—Device whose motive

power comes from the internal recoil produced by internal

CRY CHAOS!

That's the title of the fast-moving, colourful novel by Dwight V. Swalin in next month's issue. With is will be an amusing short story by A. E. van Vogt called Heusterf Alones, a grim little picco, The Toy, by R. M. Rhodes, and Rick Controy, author of Marinses in a Frozen World, will, by popular request, contribute a short story little and the same of the contribution of the bester than ever.

The Final instalment of our popular scrial . . .

Frontier Legion

by S. J. Bounds

Jan Arrowsmith, and his wife, Lydia, whom he left when hie bore his daughter, are on a speechip heading for Earth to frustrate Commandant Raymond's plan to seize power throughout the solar system. Bauer, Raymond's lieutenant, is a prisoner on the ship. Raymond cults Lydia on the space-radio and tells her that if Arrowsmith lands on Earth, her daughter Julia will die.

THE TWENTY-SECOND OF MARCH

R AYMOND'S ultimatum had surprise value.

Your daughter will die!

It was so unexpected that Jan Arrowsmith was nomentarily shocked out of his complacent self-conidence. He lay on a soft rubber couch in the control oom of the spaceship as it decelerated towards Earth, soking up at the image of Commandant Raymond in he vision screen and listening to his voice.

the vision screen and listening to his voice.
"I am not hluffing, Mrs. Arrowsmith—watch . . ."
The picture in the screen shifted. Raymond's moon-

The picture in the iscreen shifted. Raymond's moonface—a hald head, fat and round, with beady eyes disappeared, to be replaced by another scene. Arrowsmith saw a ring of grey-clad legionanizes, a white-faced nurse, and a small girl. His daughter! Arrowsmith stared with curiosity at the daughter le had never scen; she must be two years old now, he thought, it was two years since held walked out on Lydia. His attention

Lydia Arrowsmith was tense in the padded seat hefore the control panel. He saw her lithe young hody stiffen, her hands make tightly elenched fists, her face



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turn pale. Only the pressure from deceleration kept her in the seat at all; she cried out: "Julia . . . Julia!"

The screen changed again. Commandant Raymond licked his pudgy lips with a small, pink tongue; his

flashiny voice was edged with cruelty.

"As you see, Mrs. Arrowsmith, I am not hluffing.
Your daughter is in my hands—and will die, unless you
obey my instructions. Turn the ship and circle the planet
Mars. Your husband must not land on Earth's moon.
I will tolerate no interference with my obans—keer your

hushand out of my way." The vision screen went hlank.

Arrowsmith laughed softly. This was Raymond's last trick, his acc card—but the card was a joker hecause Arrowsmith didn't care what happened to his daughter. The joke was on the Commandant; he had forgotten that the reason Arrowsmith had left his wife was because she was soine to have a haby...

Jan Arrowsmith, super-captist, cared only for himself. He was going to smash Frontier Legion and nothing would stop him. Nothing, He still writted when he thought how Raymond had used him, made a food him, a dupe to lead suspicion towards Pluto and away from his own coup detat. Arrowsmith's ego had suffered at Raymond's hands, and the Commandant words. He could still memorial the country of th

ins continued to the co

Lydia had a needle-gun in her hand. She at him and said, coldly:

"Stay where you are, Jan. You're not going to stop

FRONTIER LEGION

me doing this. Julia comes first-I'm turning to circle

Arrowsmith halted in his stride; there could he no mistaking the look in his wife's dark eyes-she would

shoot if he interfered. He said:

"You fool, Lydia! Raymond will kill your daughter anyway. You don't imagine he'll keep his word? Why should he? You're just a pawn he's pushing across the hoard. Keep the ship on course and let me deal with him. Perhaps I'll he in time to save Julia—"

"Perhaps." Lydia's voice was like the crack of a whip.
"I don't trust Raymond, and I trust you even less. I haven't forgotten—or forgiven—your leaving me. I know just how much you care ahout your daughter... and this ship is not landing on the moon!"

Arrowsmith thought quickly. Time was passing. He had less than twenty-four hours to thwart Raymond's plan to seize power; but he couldn't do a thing while Lydia remained at the controls, gun in hand. He used the intercom mike in the wall:

"Hamish-hring Bauer to the control room,

Arabas Arabas and Arab her raven-black hair tied with a mauve how. There was an expression of determination to her pert, sun-tanned face, and her eyes, wide and dark, showed how easily she would use the gun if he made a wrong move. Julia would always come first with her . . .

He said: "You're very heautiful, Lydia," and took a

He stad: "You're very heasurin, Justa," and took a step nearer. "I love you, of course, and—"
"Stay where you are, Jan. I don't want to kill you." The door opened and Hamish pushed Bauer into the room. The hurly miner who had saved Arrowsmith's life on Pluto stared at Lydia in amazement; a simple minded man, the sight of her pointing a needle-gun at

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her husband was inexplicable. He stood, and stared open-mouthed.

Bauer's eyes glittered; be thought he saw a chance of turning the changed situation to his advantage. He was a slim man, dressed in the grey Legion uniform, and his face was sallow and unpleasant. He jerked out, in an emotionless monotone:

emotionless monotone:
"Turn Arrowsmith over to me. I'll see you benefit
by it."

Lydia ignored him. Arrowsmith moved easily, crossing the control room so that he was behind Raymond's lieutenant. He said:

"The Commandant has seized our daughter. What do you have to say about that. Bauer?"

The legionnaire sneered openly.

"My idea! Soon as Mrs. Arrowsmith boarded Goliath,
I knew she'd cause trouble. I told Raymond to get the
sirl. Hostage. You're not so clever. Arrowsmith—"

"You did that!"
Lydia's gan shifted slightly, swinging to point at Bauer.
Lydia's yan shifted slightly, swinging to point at Bauer.
There was tension in her body, the light of fury blazing in her eyes. She was helpless while Raymond held Julia, but Bauer.
The legionnaire had not realised how close he stood to death. Arrowsmith did, and acted swiftly. He stepped forward, grabbing Bauer's arm, be twisted the arm, throwing the legionnaire across the

room, at Lydia. Her gan spurted an energy beam. Bauer caught if full in the cheat and died with an expression of surprise on this thin face. He full heavily against Lydia, carrying her of balance. Arrowsnith darted forward, smiling coldly, very sure of himself. He caught his wife's arm and the control of the control of the control of the caught of the control of the control of the control of the control of the caught of the control of th

She gasped, struggling:

"No, Jan! Julia—I won't let you——"

Arrowsmith forgot she was a woman: he knew only

that she was an obstacle to his plans. He drew back his arm and swung his balled fist to the point of her jaw.

She had no time to duck. Arrowsmith knocked her unconscious, and stood up, grinning. He was in command.

now... He thrust her gun into his belt and looked at Hamish. The miner wore a worried expression, almost shocked; he pushed a rough hand through his grey hair, almost stuttering:

"Your wife-

Arrowsmith snapped: "She's gone crazy. Tried to stop me going after Raymond. I'll lock her in one of the empty cahins—you get rid of Bauer. Push him out of the airlock,"

He found his wife surprisingly heavy, and had to drag her unconscious hody along the floor. He went through the door, careless of Hamish's look of disgust, and dumped her in the first cahin he came to. He locked the door and returned to the control room. Hamish had

the door and returned to the control room. Hamish had taken Bauer aft, to get risk of the body. Jan Arrowsmith slid into the padded seat before the instrument panel and dischagaged the automatic pilot. He checked the ship's course, found it still centred on the Earth-moon system, and recommenced deceleration. He lay back in the seat as pressure began to huild up again.

It was only a matter of hours now before he caught up with Commandant Raymond—hours to the show lown with Frontier Legion. Raymond had plenty to answer for and Arrowsmith would exact full payment. A smile

for and Arrowsmith would exact full payment. A smile creased his face as he imagined Raymond's surprise when he landed . . . in full possession of his memory. The Commandant's scheme had heen a clever one. Arrowsmith had been drugged into forgetfulness, then sent helow Pluto's surface, to the Deeps. Lydia had saved him then; and again when he was hranded a deserter from the Legion, Yes, Raymond had been clever-but not clever enough. Bauer had spoken the trigger word, Copernicus, and Arrowsmith's memory

He knew now that the threat from Pluto was a hlind to cover Raymond's hid for power, that the danger to Earth came from Frontier Legion. Bauer had paid the

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penalty; but the Commandant was still free to carry out his coup—and still Arrowsmith did not know the exact nature of the plot against Earth.

Arrowsmith watched the visisceren and saw Earth grow steadily larger as the spaceship approached. It was a hlue-green sphere with the moon, a crescent of light, to one side. After a while, the moon was crowded out of the screen, which became filled by the bulk of the planet.

Reamond p plot centred about the federation he Raymond p plot centred about the federation to the federation of the federation of the federation of the colonizing the planets of the solar system, there had been bickering between the pioneers and central government. The colonies had grown away in outlook from the mother planet and interplanetary war seemed imminent. Then Neilson, Prime Minister of Terra, had started his scheme to federate the inner planets, Earth,

It would be a good thing, Arrowsmith thought—but not for Raymond, Frontier Legion was composed of outcasts and wanted men, the seum of Earth; in the beginning, the frorce had been used to open up the planets for the colonists, but Raymonal's methods had made him hated throughout the system. The new federation would certainly want to abolish Frontier Legion ...

Earth was rushing up, filling the screen. Arrowmith saw his own reflection, superimposed on the darkness of the Atlantic Ocean. His thinning hair, the lean features with protuzingia checkbones, and fines etched about his mouth, prodaimed his thirty-five years. Lydia, he mouth, prodaimed his thirty-five years. Lydia, he forchead was large and bour, his doep-set eyes a pale blue, his pointed nose with its pinched nostrils added to an impression of sacticism. The reflection fided.

blue; his pointed nose with its pinched nostrils added to an impression of asceticism. The reflection fided.

It was the twenty-second of March, the day for the signing of the federation; representatives of three worlds were meeting on Earth's moon—it would be there that Raymond must strike. Acrowsmith changed course. Earth veered off the visiscreen, to be replaced by the moon. Time was running short and he must land directly on the moon.

He used the space radio, calling: "Jan Arrowsmith, Security Agent, to Neilson, Prime Minister of Terra. Answer please." He reneated his call for several minutes, then a reply

"Arrowsmith? This is Parker, of Security, Quote

your number, please." Arrowsmith laughed softly. Evidently Raymond had

spread his story that he, Jan Arrowsmith, was an impostor . . . hut now, he could recall his security number without trouble. Another of the Commandant's plans had failed.

He said: "Parker, my number is X-110. I must speak to Neilson immediately," Parker's tone changed.

"Thank God it's you, Arrowsmith. No one here has the first idea of what's going to happen. Raymond came hack and said you'd vanished, that an alien was posing as you. He-

Arrowsmith interrupted: "Never mind that now, I want Neilson,"

"Sorry, we've lost touch with him." Parker's voice had worry in it. "The Prime Minister has disappeared completely!"

Neilson disappeared! Arrowsmith thought quickly; this new set-hack must be Raymond's work, What could be do without the Prime Minister's authority?
He knew what Earth's government was like, conservative
and slow to act; there would be endless red-tane to cut—and time was short. This was another trick of Raymond's to prevent counter-measures; he must have kidnapped Neilson and . . . no sense in worrying about

He said: "Where are you speaking from, Parker?"

"Security Headquarters at Copernicus City."
"Good," Arrowsmith pictured a city under the huge glassite dome which covered the crater of Copernicus on Earth's moon. It was here the federation representatives

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were meeting. He asked: "How many agents have you?"
"Fifty. And there's the Legion, of course,"

Arrowsmith smiled grimly. Of course there would be the Legion, ready to strike for Commandant Raymond under the guise of waiting for an attack from Pluto, Fifty men weren't many with which to comhat Frontier

Legion-not many, hut they'd have to manage. "Listen, Parker-there is no menace from Pluto. Raymond and the Legion are the enemy. I'm coming in

to land at Copernicus City—arm your men and meet me, ready for immediate action. Try to find out where Raymond is and what he's doing. How is the federation

There was a long pause. Parker was ohviously trying to adjust himself to the new situation; till now the security man had assumed that he would he fighting alongside the grey-clad legionnaires. Tenseness crept

"By God, Arrowsmith, what are we going to do? Without Neilson, and with more than a hundred im-portant officials from Mars and Venus to protect, we can't afford-Jan Arrowsmith cut in confidently: "Don't worry,

Parker. I can handle it. Coming in now."

Yes, he thought, he could handle Raymond. And it

would he a pleasure; he had heen pushed around for

too long—it was time to call the Commandant to account. The final reckoning was long overdue and Arrowsmith wanted to get his hands on the fat hoss of Frontier Legion. The crater-studded surface of the moon filled the

visiscreen. He pin-pointed Copernicus and sent the spaceship down at the shimmering, domed city. Landing jets fired and the spaceship settled to rest near one of the airlocks leading into the city. Pressure eased, and

Arrowmith left his padded couch,
Outside the ship, the glassite dome arched to an airless

sky and distant stars dotted the black void of snace. Eroded rock, pitted and scarred, formed a hleak and lifeless landscape, contrasting strangely with the close-

grouped buildings of Copernicus City and the bustle of people and machines.

Arrowsmith gave orders: "Hamish, you and your men stay aboard the ship. Keep the Legion out-I may want this ship in a hurry before long. I'm going into Coper-nicus. I'll take my wife with me."

He left the control room and moved along the passage to the cabin where he had imprisoned Lydia. He un-locked the door and went in. His wife was sitting on the edge of an acceleration couch, very still, her face pale. There was bitterness in the look she gave him, and in

her tone of voice.

and you landed on the moon, Jan. Doesn't your daylander's life mean anything to you?" She rose, advancing towards him. "I can't think why I married such a cold-blooded swine! And I loved you... you, the super-ego, the man who cares only for himself. I must have been mad! Julia—" Arrowsmith snapped: "Stop wbining! Julia may still he alive. She is the last card in Raymond's band—he

won't kill her while be believes you'll do anything to stop me interfering with bis plan. Come on-we're going into Copernicus, after Raymond. I may need you again.

She followed him in silence to the airlock of the ship, where they climbed into spacesuits to cross the void to

the city. Arrowsmith said: "Stop thinking about Julia. Sbe's

only one person—the lives of millions are at stake. The federation must not be sabotaged."

They walked from the spaceship, over bare rock and

hleached dust, and through the airlock of the city under the dome. Inside, Parker was waiting with a dozen "What's the position now?" Arrowsmith asked

tersely. Parker was a blond-haired man with a clipped moustache; he had a barassed look.

"Raymond is at Legion headquarters: he can't leave

without my men spotting him. Neilson is still missing. And more and more representatives are arriving." Arrowsmith looked at the busy streets across the

square from the airlock.

square from the agrock.
"If don't see any legionnaires," he commented. "I bad
expected a bot reception."
Parker said: "Plat worries me. Obviously Raymond
knows of your arrival—yet be does nothing. His men
are inside Legion headquarters, except those on the
thips. I can't understand it ——"

Arrowsmith said, impatiently: "We can't afford to wait-we must attack first."

"But bow? Raymond is inside a fortress, surrounded by armed men. We can't——"

"We can!" Arrowsmith had never felt so confident.
"I have a plan. Raymond is holding my daughter as
hostage—be believes that Lydia will stop me going after him because of ber. We'll play on that. Lydia, use a public video box and call Raymond—tell him you'll deliver me into bis hands, a prisoner, if he'll promise not to harm Julia. Fix a meeting place and suggest be sends some men."

Parker stared. "Then what?"

"You've enough agents to take care of Raymond's patrol. We'll switch uniforms—you'll escort me to Raymond. Once inside, shoot to kill!"

Parker turned to Lydia. He said:
"Arrange the meeting for suite 77 at the Rota botel. In fifteen minutes."

Lydia Arrowsmith walked across the square to the nearest video box and called Legion beadquarters; she gave her name and asked for the Commandant. Ray-mond answered immediately, his moon-face filling the

"Mrs. Arrowsmith, you have not obeyed my orders. Your husband-" Lydia interrupted passionately: "Julia-my daughter-

have you . . .?" "Not yet, Mrs. Arrowsmith. Your daughter is safe, but for how long depends on you."

Lydia said: "I couldn't stop my hushand landing on the moon. But I can deliver him into your hands, and I'll do that if you return Julia."

Raymond's close-set eyes stared at her from the video

reen. He licked the corners of his mouth, and said:
"Don't try any tricks if you want the girl hack," "It's no trick." She meant it; willingly she would have sacrified Jan Arrowsmith for her daughter. Her sincerity convinced the Commandant, "You'll find my

hushand in suite 77, at the Rota hotel. If you send over a patrol in fifteen minutes, you can pick him up." "My men will leave at once," Raymond replied, and

switched off

Lydia returned to Arrowsmith and the security agents.

"All right?" Arrowsmith asked, Lydia nodded. Parker guided them to a jet-car and the party sped away, through busy roadways, to the Rota hotel. It was a plastic and glass huilding, twenty

Parker explained: "We reserve suite 77 for undercover work—not even Raymond knows that Security has a permanent agency there. You'll find the place fully equipped."

They took the elevator to the third floor and settled to wait for the Legion patrol. Parker and his men

dispersed to take up secret positions; only Arrowsmith and Lydia remained in view. They did not have long Raymond's men arrived in less than the scheduled

fifteen minutes, and they did not hother to knock before entering. The door opened and a dozen men crowded in, guns in their hands. The patrol leader started to

"Don't move. We---" He never finished. Both Arrowsmith and his wife

held filter masks over their faces as a narcotic gas flooded the room. The legionnaires strawled on the floor, unconscious. Parker cleared the suite of gas in a few minutes and his agents stripped off the legionnaires' uniforms and dressed in them.

Lydia said: "If Raymond bas a spy-ray trained on this room—."

this room——"
"No chance of that," Parker answered. "The whole suite is screened."

suite is screened."

Twelve scourity agents, dressed in the Legion grey, escorted Arrowsmith and Lydia to waiting cars. They drove through the streets of Copernicus City, past the buge ball where the representatives of three planets were gathering to sign the federation documents, and on to

gathering to sign the federati-Frontier Legion headquarters.

It was built to the same plan as the outpost on Pluto, a stone fortress, bigh-wailed, with a grey, silver and black flag hanging limply from a tall mast. The sentries on the gate passed the cars without investigation, and they drove across the gravel square to the administration

block.

The fortress was strangely quiet, descried. Apart from the sentries on the main gate, they saw no sign of life.

"I don't like the look of this." Parker said, frowning.

Whatever is due to happen, Arrowsmith thought, is coming very soon.

They want into the administration block towards

They went into the administration block, towards Raymond's private office. There were two guards—both in spacesuits. Parker's men rayed them before they

In Specious 1 and 1 and 1 and 1 and 2 and

Parker's thoughts took the same line. He said:
"It's impossible! There are too many safety precautions—and I doubled the guard at the plant. Raymond
conditions with the air supply. I'm sure of that."

isons—and I dounded to guard at the plant. Raymond can't interfere with the air supply, I'm sure of that."

"Glassite is tough stuff," Arrowsmith murmured, thinking aloud. "Nothing short of an atomic blast would split the dome—and if Raymond were planning that, be wouldn't be here now. Too much radio-activity

FRONTIER LEGIO

alterwards. We must move carefully until we're surwhat his game is. All right, let's or in."
Parker pushed open the door of Raymond's private Parker pushed open the door of Raymond's private from the private of the private private private private count. There were four passessuit elegionairies, all with needle-gams ready for action. Commandant Raymond's that hulk was similarly encased in a spacesuit; through the transparent blood, his hald head shone and his heady did not seem aware that the men in zero were not those

he had sent to suite 77.

"Ah, Mrs. Arrowsmith—this is a pleasure. I'm glad

to see you've kept your side of the hargain."

He drew his own gun and pointed it at Jan Arrowsmith.
"I should have killed you ahoard the Gollath," he said softly, "and saved myself a lot of worry. However,

you will cause me no further trouble..."

Arrowsmith's lips curied in disgust. Raymond was so far heneath his notice that to kill him would he like stepping on a slug. It was a pity the Commandant was not worthy of his attention.

Lydis hroke in. "Utilia—my daughter—she's all right?"
"In perfect health," Raymond assured her. His
flashy voice had a metallic tone through the microphone
in his helmet. "We shall join her at once—her and

Neilson. I have the Prime Minister here, too." Arrowsmith said: "What are you planning, Command-

Raymond smiled,
"You'll see-in due course. I have been waiting for

you to arrive; it would not have suited me to have you miss the final hlow. Now, thanks to your wife, we can proceed." He glanced at Parker. "Dismiss your men. Board the spaceships."
Parker heistated, looking to Arrowsmith. At a nod,

Board the spaceships."
Parker hesitated, looking to Arrowsmith. At a nod, the security agents left. Arrowsmith knew they would return after taking care of the sentries. Meanwhile, he and Lydia were alone with Raymond and four armed

killers. Raymond said: "To the tower!"

They crossed the square to a high tower in the centre of the fortress and used the elevator to reach the top

floor. Neilson and Julia were alone, chained to the wall, and a strange machine stood in the centre of the room. Arrowsmith tensed: This was til Neilson was in his sixties, a white-haired man with strong lines etched in his face. His voice had sadness

"So they got you too, Jan?"

Arrowsmith did not reply; he was busy studying the room and the machine it contained. Lydia crossed to her daughter, anger flushing her cheeks. She wheeled on

Raymond, snapping: "You swine! Shackling a young child that way,

You-The Commandant chuckled.

"In a few more minutes it will not matter, Mrs. Arrowsmith. I regret I cannot allow you to leave here after all. However, you have the privilege of dying with

Arrowsmith moved his position so that he could see Raymond close to the machine. The four guards were grouped to one side.

He murmured, just loud enough for Lydia to hear him: "Take four." She would know what to do when he gave the signal-

and Raymond did not realize they were both armed; he assumed the men he had sent to suite 77 would

Arrowsmith said: "Tell us what you're going to do, Commandant."

Raymond moved a switch at the side of the machine. A warning light came on; a needle crept steadily across an instrument dial; the air hummed with electric tension. The humming changed to a high-pitched whine that faded to silence.

Raymond said: "My plan is very simple. This machine is a source of vihration, a high-frequency oscillator. You cannot hear it now, but I assure you it is still operating— the sound waves transmitted are of such high frequency as to he inaudible to human ears. Watch the needle move across the dial-watch it approach the red line. That red line denotes the frequency which will disintegrate

Yes, Arrowsmith thought, he could guess the rest. The classic example was the note of a violin which would shatter a wine glass. Raymond had huilt a machine to produce a similar frequency for the glassite dome over Copernicus City. When the needle hit the red line, the dome would shatter to atoms and the air rush out; anyone not in a spacesuit would die in seconds. Every memlier of the three governments at the federation meeting . . . and three worlds would he reduced to anarchy at a single stroke. Raymond, with Frontier Legion to enforce his orders, would declare a dictator-

ship which would spread throughout the solar system.

Jan Arrowsmith laughed, swaggering forward. His moment had come-his hand went into his pocket. grasped the hutt of the needle-gun there as he shouted to his wife:

"Take four . . . now!"

Arrowsmith fired without taking the gun from his pocket; his first shot hurnt clean through Raymond's chest, killing him instantly; he hrought his gun to hear on the oscillator until it was a fused mass of wiring, a dead machine that could never produce the evil result for which it had heen huilt. At the same moment, Lydia's gun spurted an energy beam that sprayed the four legionnaires. The action was over in a fraction of a second and Frontier Legion was no longer a menace. The federation would go through, hringing a new era of peace and prosperity to the peoples of the solar system. Jan Arrowsmith had never felt better in his life.

I YDIA ARROWSMITH sat with her two-year-old daughter hefore a video screen, twenty-four hours later. Nelson had been speaking, telling of the success of the federation and how Raymond's plot had heen folied by Security Agent X-110. He introduced Arrowsmith to a grateful and admiring public,

Lydia said: "That's your father, Julia-a wonderful After the cheers died away, Arrowsmith spoke:

"This is the greatest moment in my life. Always I shall look back at the time when I, alone and unaided, saved the federation of three worlds and the system from slavery. Of course, it was easy enough for me . . .

Julia said: "Daddy come home, now?"
Lydia did not reply. She switched off the broadcast,

tired of Arrowsmith's self-conceit. He made no mention of the help she had given him-she might not have

existed for all the public knew. The super-ego had forgotten her completely . . . Julia repeated: "Daddy come home now?"

'No, not vet," Lydia murmured, holding the small

A sadness and a bitterness pervaded her being. She knew that Ian Arrowsmith would never return. Never.

(Convight, 1953)



A new synchroton is in the design stage in the United States util a recently discovered method of focusing magnetic fields. estimated that the new machine will accelerate electr ctron-volts. This will considerably widen the ne scope of substomic physics and may cast more light on the p

THE ROSE

(Continued from page 29.)

their creations in precisely the same manner and with proceeding the same result as when those compressed his guest. And the method was long old when they were the harvest suggestions of landscapes on the dispreportionate backgrounds of their vases. The Shah Lindon to the compression of the compression of their contractions have a superior of their vases. The Shah Lindon tracellating not before the Taj Mahal. The Greek tracellating not before the Taj Mahal. The Greek tracellating not be the superior of the compression of the gained by specing the Flory of Flories at a distance from imported. Chalden architects know the effect to be gained by specing the Flory of Flories at a distance from miles affordwardly parised their rannelsos animal scenes only in the most inaccessible crimines of their Martha Jacques smiled coldly. "Orvel, drivel, Martha Jacques smiled coldly." "Orvel, drivel,

drivel. But never mind. One of these days soon I'll produce evidence you'll be forced to admit art can't touch."

"If you're talking about Scionnia, there's reaf nonemer or you," countered Leagues aniable, "Really, Martha, for you," countered Leagues aniable, "Really, Martha, the property of the state of the state of the state theory with the unified field theory of limitin, while theory, as fulle gesture in the first place. Before proclasors handled the problem very maily. They unight the quantum theory on Mondays, Wednesdays, the proclasors handled the problem very maily. They unight the quantum theory on Mondays, Wednesdays in front of their television sext. What's the good of in front of their television sext. What's the good of "If's the final summation of all physicia and hislogical

knowledge," retorted Martha Jacques. "And as such, Sciomnia represents the highest possible aim of human endeavour. Man's goal in life is to understand his environment, to analyse it to the last iota-to know what he controls. The first person to understand Sciomnia may well rule not only this planet, but the whole galaxy-not that he'd want to, but he could. That person may not he me-but will certainly be a scientist, and not an

irresponsible artist." "But Martha," protested Jacques, "Where did you pick up such a weird philosophy? The highest aim of man is not to analyse, but to synthesise—to create. If you ever solve all of the nineteen sub-equations of Sciomnia, you'll he at a dead end. There'll he nothing left to analyse. As Dr. Bell the psychogeneticist says, over-specialisation, he it mental, as in the human scientist, or dental, as in the sahre-tooth tiger, is just a synonym for extinction. But if we continue to create, we shall eventually discover how to transcend-"

Grade coughed, and Martha Jacques cut in tersely: "Never mind what Dr. Bell says. Ruy, have you ever seen this woman hefore?"

"The rose hush? Hmm." He stepped over to Anna and looked squarely down at her face. She flushed and looked away. He circled her in slow, critical appraisal. like a prospective huyer in a slave market of ancient Baghdad. "Hmm," he repeated doubtfully.

Anna breathed faster: her cheeks were the hue of

heets. But she couldn't work up any sense of indignity. On the contrary, there was something illogically delicious ahout heinz visually pawed and handled by this strange

leering creature.

Then she jerked visibly. What hypnotic insanity was

then sne jerked visinly. What hyphotic thishinty with its 7 his hand, If he acknowledged her, the vindictive creature who passed as his wife would crush her professionally. If he denied her, they'd know he was lying to save her—and the consequences might prove even less pleasant. And what difference would her ruin make to him? She had sensed at once his monumental selfishness. And even if that conceit, that gorgeous self-love urged him to preserve her for her hypothetical value in finishing up the Rose



score, she didn't see how he was going to manage it.
"Do you recognise her, Mr. Jacques," demanded do." came the solemn reply.

Anna stiffened.

Martha Jacques smiled thinly. "Who is she?" "Miss Ethel Twinkham, my old spelling teacher,

How are you, Miss Twinkham? What brings you out "I'm not Miss Twinkham," said Anna dryly. "My name is Anna van Tuyl. For your information, we

met last night in the Via I "Oh! Of course!" He laughed happily. "I seem to

apologise, Miss Twinkham. My behaviour was execrable. I suppose. Anyway, if you will just leave the bill for damages with Mrs. Jacques, her lawyer will take care of everything. You can even throw in ten per cent, for mental anguish."

Anna felt like clapping her hands in glee. The whole Security office was no match for this fiend.

"You're getting last night mixed up with the night before," snapped Martha Jacques. "You met Miss van Tuyl last night. You were with her several hours. Don't lie about it."

Again Ruy Jacques peered earnestly into Anna's face. He finally shook his head, "Last night? Well, I can't deny it. Guess you'll have to pay up, Martha. Her face is familiar, but I just can't remember what I did to make her mad. The bucket of paint and the slumming dowager was last week, wasn't it?"

Anna smiled. "You didn't injure me. We simply danced together on the square, that's all. I'm here at Mrs. Jacques' request." From the corner of her eye at watched Martha Jacques and the colonel exchange questioning glances, as if to say, "Perhaps there is really

nothing between them."

But the scientist was not completely satisfied. She turned her eyes on her husband. "It's a strange coin-cidence that you should come just at this time. Exactly why are you here, if not to becloud the issue of this woman and your future psychiatrical treatment? Why don't you answer? What is the matter with you?"

For Ruy Jacques stood there, swaying like a stricken satyr, his eyes coals of pain in a face of anguished flames. He contorted backward once, as though attempting

the committed becaward once, as though altempting to placate furious fings tearing at the hump on his back. Anna leaped to catch him as he collapsed. He lay cupped in her lap moaning voicelessly. Something in his hump, which lay against her left breat, seethed and raged like a gone locked in a bottle.

"Colonel Grade," said the psychiatrist quietly, "you will order an ambulance. I must analyse this pain syndrome at the clinic immediately."

Ruy Jacques was hers.

"" HANKS awfully for coming, Matt," said Anna armly.
"Glad to, honey." He looked down at the

prone figure on the clinic cot. "How's our friend?" "Still unconscious, and under general analgesic.

called you in hecause I want to air some ideas ahout this man that scare me when I think about them alone."

The psychogeneticist adjusted his spectacles with elaborate casualness. "Really? Then you think you've found what's wrong with him? Why be can't read or write?"

"Does it bave to be something wrong?" "What else would you call it? A . . . gift?"

She studied him narrowly. "I might—and you might— for begot something in return for his loss. That would have been a superficient of the solution of the solut our identical aberrations, Well?"

Bell tapped imperturbably at his cigar. "As you say, the question is, whether he got enough in return—enough to compensate for his lost skills."

She gave him a baffled look. "All right, then, I'll do the talking. Ruy Jacques opened Grade's private door, when Grade alone knew the combination. And when be got in the room with us, be knew what we had been talking about. It was just as though it bad all been susming about. It was just as though it bad all been written out for him, somehow. You'd have thought the lock combination bad heen pasted on the door, and that he'd looked over a transcript of our conversation."

"Only, he can't read," observed Bell.

"You mean, be can't read . . . writing." "What else is there?"

"Possibly some sort of thought residuum... in things. Perbaps some message in the metal of Grade's door, and in certain objects in the room." She watched him

closely. "I see you aren't surprised. You've known this all alone." "I admit nothing. You, on the other hand, must admit

that your theory of thought-reading is superficially "So would writing he—to a Neanderthal cave dweller. But tell me, Matt, where do our thoughts go after we think them? What is the extra-cranial fate of those

feelle, intricate electric oscillations we pick up on the encephalograph? We know they can and do penetrate the skull, that they can pass through hone, like radio use saus, usat they can pass through hone, like radio waves. Do they go on out into the universe forever? Or do dense substances like Grade's door eventually absort them all? Do they set up their wispy patterns in metals, which then hegin to vibrate in sympathy, like piano wires responding to a noise?"

Bell drew heavily on his cigar. "Seriously, I don't know. But I will say this: your theory is not inconsistent with certain psychogenetic predictions." "Such as?"

"Such as?"
"Eventual telemusical communication of all thought. The encephalograph, you know, looks oddly like a musical sound track. Oh, we can't expect to convert overnight to communication of pure thought by pure music. Naturally, crude transitional forms will intervene. But any type of direct idea transmission that involves the sending and receiving of rhythm and modulation as

the sending and receiving of rhythm and moditation as moditation, and may be a redimentary step in section, and may be a redimentary step in section of true mutual communion, just as dawn man prespect true mutual communion, just as dawn man prespect true mutual communion, just as dawn man prespect and the section of the

really needed to know. So now Ruy forgets how to read. A great pity. Perhaps. But if the world were peopled with Ruys, they wouldn't need to know how. for after the first few years of infancy, they'd learn to use their metal-empathic sense. They might even say, 'It's all very nice to be able to read and write and swing about in trees when you're quite young, hut after all, one matures," "

one matures.

She pressed a hutton on the desk slide viewer that sat on a table by the artist's hed. "This is a radiographic slide of Ruy's ecrebral beninspheres as viewed from above, prohably old stuff to you. It shows that the from's are not mere localised growths in the perfontal area, but extend as skinder tracts around the respective hemispheric peripheries to the visuo-ensory area of the occipital lobes, where they turn and enter the cerebral interior, there to merge in an enlarged hall-like juncture at a point over the cerebellum where the pincal 'eye', is

"But the pineal is completely missing in the slide," demurred Bell.

"That's the question," countered Anna. "Is the pineal absent—or, are the 'horns' actually the pineal, enormously enlarged and hifurcated? I'm convinced that the latter enlarged and intureated? I'm convinced that the latter is the fact. For reasons percently unknown to me, this heretofore small, obsoure lobe has grown, filtrosted, the soft cerebral tissue concerned with the ability to read, but also has gone on to skirt half the cerebral circumference to the forehead, where even the hard frontal hone of the skull has softened under its pressure. She looked at Bell closely." I infer that it's just a question

Bell's eyes drifted evasively to the immobile face of the unconscious artist. "But the number of neurons in a given mammalian hrain remains constant after hirth," he said, "These cells can throw out numerous dendrites and create increasingly complex neural patterns as the

subject grows older, but he can't grow any more of

"I know. That's the trouble, Ruy can't grow more brain, but he has." She touched her own 'horns' wonder-ingly, "And I guess I have, too, What-?" Following Bell's glance, she hent over to inspect the

artist's face, and started as from a physical blow.

Eves like anguished talons were clutching hers. His lips moved, and a harsh whisper swirled about her ears like a desolate wind: "... The Nightingale... in

death . . . greater heauty unhearable . . . hut watch . . . White-faced, Anna staggered hackwards through the

door.

BELL'S hurried footsteps were just hehind her as she hurst into her office and collapsed on the consultation couch. Her eyes were shut tight, but over her lahoured hreathing she heard the psycho-geneticist sit down and leisurely light another cigar.

Finally she opened her eyes. "Even you found out something that time. There's no use asking me what

"Isn't there? Who will dance the part of The Student on opening night?"

"Ruy, Only, he will really do little beyond provide support to the prima hallerina, The Nightingale, that is, at the heginning and end of the hallet."

"And who plays The Nightingale?"

"Ruy hired a professional—La Tanid."

Bell hlew a careless cloud of smoke toward the celling.
"Are you sure you aren't going to take the part?" "The role is strenuous in the extreme. For me, it

would be a physical impossibility." "Now."

"What do you mean-now?" He looked at her sharply. "You know very well what I mean. You know it so well your whole hody is

quivering. Your hallet première is four weeks off—hut you know and I know that Ruy has already seen it. Interesting." He tapped coolly at his cigar. "Almost as 78

interesting as your belief he saw you playing the part of The Nightingale."

Anna clenched her fists. This must be faced rationally. She inhaled deeply, and slowly let her breath out. "How can even he see things that haven't happened yet?"

"I don't know for ture. But I can guess, and so could you if you'd entit down a bit. We do know that the separation of the power of the search of the search

"What a marvellous—and terrible gift."
"But not without precedent," said Bell. "I suspect
that a more or less reactivated pineal lies helpind every

case of clairwysnee collected in the annals of parapsychology. And I can think of at least one historical instance in which the pineal has actually tried to penetrate the forehead, though evidently only in monolobate form. All Buddhist statues carry a mark on the forehead symholic of an inner eye. From what we know now, Buddha's timer eye was something more in official to the property of the property of the property of the collection of the property of the property of the property of collection of the property of the property of the property of collection of the property of the collection of the property of the p

explain the pain in Ruy's hump. Nor the bump itself, for that matter."

"What," said Bell, "makes you think the hump is anything more than what it seems—a spinal disease

characterised by a growth of laminated tissue?"

"It's not that simple, and you know it. You're familiar
with 'pbantom limb' cases, such as where an amputee
retains an illusion of sensation or pain in the amoutated

He nodded.

She continued: "But you know, of course, that ampation to in it as also also precupate to a "photonom." A shatomar A course of the property of the photonom and the property of the property o

Bell appeared to consider this. "That still doesn't account for Ruy's pain. I wouldn't think the process of growing a tail would be painful for a tadpole, nor a phantom limb for Ruy—if it's inherent in his physical structure. But he that as it may, from all indications he is still going to he in considerable pain when that narcotic wears off. What are you going to do for him then? Section the ganglia leading to his hump?

"Certainly not. Then be would never he able to grow that extra organ. Anythow, even in normal plantom limb cases, 'cutting nerve tissue doesn't help. Excision of neuromas from limb stumps thrigs only temporary thesia. No, phantom pain sensations are central rather than peripheral. However, as a temporary analgesic I shall try a two per cent. solution of novocaine near the "We'd heter be getting hack to him." at the watch.

NNA withdrew the syringe needle from the man's A side and rubbed the last puncture with an alco-

"How do you feel, Ruy?" asked Bell. The woman stooped beside the sterile linens and looked

at the face of the prone man. "He doesn't," she said uneasily. "He's out cold again." "Really?" Bell hent over heside her and reached for the

man's pulse. "But it was only two per cent, novocaine, Most remarkable."

"I'll order a counter stimulant," said Anna nervously,

"I don't like this,"

"Ob, come, girl. Relax. Pulse and respiration normal. In fact, I think you're nearer collapse than he. This is

very interesting . . ." His voice trailed off in musing surmise. "Look, Anna, there's nothing to keep both of us here. He's in no danger whatever. I've got to run

along. I'm sure you can attend to him." I know, she thought. You want me to be alone with

She acknowledged bis suggestion with a reluctant nod of her bead, and the door closed behind his chuckle,

nod of her beau, and the door closed behind his coverage. For some moments thereafter she studied in deep abstraction the regular rise and fall of the man's chest. So Ruy Jacques had set another medical precedent. He'd received a local ancesthetic that should have done nothing more than desensitise the deformed growth on bis back for an bour or two. But here be lay, in apparent coma, just as though under a general cerebral anæsthetic.

Her frown deepened.

X-ray plates bad showed his dorsal growth simply as a compacted mass of cartilagenous laminated tissue (the same as hers) penetrated bere and there by neural ganglia. In deadening those ganglia she should have accomplished nothing more than local anesthetisation of that tissue mass, in the same manner that one anesthetises an arm or leg by deadening the appropriate spinal ganglion. But the actual result was not local, but general. It was as though one had administered a mild local to the radial nerve of the forearm to deaden pain in the hand, but had instead anosthetical the cerebrum And that, of course, was utterly sensicias, completely incredible, hocase anasthesia work from the higher neural centres down, not vice versa. Deadcoing a certain area of the partical lobe could kill sensation in the radial nerve and the hand, but a bypo in the radial nerve and the hand, but a bypo in the radial overchimum, because be partical top-intainion was neurally superior. Anadopously, anaestheising Ruy Jacques' hump shouldn't have deadened his entire cereframy, because certainly his cerebrum was to he presumed requisity superior to that deadle and differentation. And that, of course, was utterly senseless, completely

To be presumed . . . But with Ruy Jacques, presumptions were—invalid. So that was what Bell had wanted her to discover.
Like some sinister reptile of the Mesozoic, Ruy Jacques had two neural organisations, one in his skull and one on his back, the latter heing superior to, and in some degree controlling, the one in his skull, just as the cerebral cortex in human heings and other higher animals assists and screens the work of the less intricate cerebellum. and just as the cerebellum governs the still more primitive medulla oblongata in the lower vertebrata, such as from meants ontongsta in the lower vertenrata, such as trops and fishes. In anesthetising his hump, she had disrupted communications in his highest centres of consciousness, and in anæsthetising the higher, doesal centre, she had apparently simultaneously deactivated his 'normal'

As full realisation came, she grew aware of a curious numbness in her thighs, and of faint overtones of mingled terror and awe in the giddy throlhing in her forehead. Slowly, she sank into the bedside chair.

For as this man was, so must she hecome. The day

lay ahead when her pincal growths must stretch to the point of disrupting the grey matter in her occipital lohes. and destroy her ahility to read. And the time must whole hody with its anguished writhing, as it had done his, and try with probable equal futility to hurst its And all of this must come—soon; before her ballet première, certainly. The enigmatic skein of the future would be bared to her evolving intellect even as it now was to Ruy Jacques'. She would find all the answers she sought ... Dream's end ... the Nightingale's death song . . . The Rose. And she would find them whether she wanted to or not. She groaned uneasily

At the sound, the man's eyelids seemed to tremble; his breathing slowed momentarily, then became faster.

She considered this in perplexity. He was unconscious,

She considered this in perpectity. He was unconscious, certainly; yet he made definite responses to aural stimuli. Possibly she had anesthetised neither member of the hypothetical brain-pair, but had merely cut, temporarily, their lines of intercommunication, just as one might temporarily disorganise the brain of a laboratory animal temporarily disorganise the brain of a laboratory animal by anæsthetising the pons Varolii linking the two cranial

Of one thing she was sure: Ruy Jacques, unconscious,

and temporarily mentally disintegrate, was not going to conform to the behaviour long standardised for other unconscious and disintegrate mammals. Always one step beyond what she ever expected. Beyond man.

She arose quietly and tintoed the short distance to the

When her lips were a few inches from the artist's right ear, she said softly: "What is your name?" The prone figure stirred uneasily. His evelids fluttered. but did not open. His wine-coloured lips parted, then

hut, then opened again. His reply was a harsh, barely ntelligible whisper: "Zhak." "What are you doing?"

"Searching . . ."

"A red rose."

"There are many red roses." Again his somnolent, metallic whisper: "No, there is but one."

She suddenly realised that her own voice was becoming

tense, shrill. She forced it hack into a lower key, "Think of that rose. Can you see it?"

She cried: "What is the rose?"

"Yes . . . ves!"

It seemed that the narrow walls of the room would clamour forever their outraged metallic modesty, if something hadn't frightened away their pain. Ruy

Jacques opened his eyes and struggled to rise on one elbow On his sweating forehead was a deep frown. But his

eyes were apparently focused on nothing in particular, and despite his seemingly purposive motor reaction, she knew that actually her question had but thrown him deeper into his strange spell.

Swaying a little on the dubious support of his right elhow, he muttered: "You are not the rose . . . not

and rhythmic breathing.

yet . . . not yet . . . She gazed at him in shocked stupor as his eyes closed slowly and he slumped back on the sheet. For a le moment there was no sound in the room hut his deep

TITHOUT turning from her glum perusal of the VV clinic grounds framed in her window, Anna threw the statement over her shoulder as Bell entered the office. "Your friend Jacques refuses to

return for a check-up. I haven't seen him since he walked out a week ago." "Is that fatal?"

She turned blood-shot eyes on him. "Not to Ruy." The man's face twinkled. "He's your patient, isn't he? It's your duty to make a house call."
"I certainly shall. I was just going to call him on the

visor to make an appointment."

"He doesn't have a visor. Everyhody just walks in. There's something doing in his studio nearly every night. If you're hashful, I'll be glad to take you."

"No thanks. I'll go alone—early." Bell chuckled, "I'll see you tonight."

UMBER 98 was a sad, ramshackled, four-storey, plaster-front affair, evidently thrown up during the materials shortage of the late forties. Anna took a deep hreath, ignored the unsteadiness of her knees, and climbed the half dozen sters of the

There seemed to be no exterior hell. Perhaps it was inside. She pushed the door in and the waning evening light followed her into the hall. From somewhere came

a frantic harking, which was immediately silenced.

Anna peered uneasily up the rickety stairs, then
whirled as a door opened hehind her.

A fuzzy canine muzzle thrust itself out of the crack in

the doorway and growled cautiously. And in the same crack, farther up, a dark wrinkled face looked out at her suspiciously. "Whaddaya want?"

Anna retreated half a step. "Does he hite?"

"Who, Mozart? Nah, he couldn't dent a hanana."

The creature added with anile irrelevance. "Ruy gave him to me because Mozart's dog followed him to the grave."

"Then this is where Mr. Jacques lives?"

"Sure, fourth floor, but you're early." The door opened wider, "Say, haven't I seen you somewhere Recognition was simultaneous. It was that animated

stack of purple dresses, the ancient vendress of love

"Come in, dearie," purred the old one, "and I'll mix you up something special."
"Never mind," said Anna hurriedly. "I've got to see Mr. Jacques." She turned and ran toward the stairway.

A horrid floating cackle whipped and goaded her flight, until she stumhled out on the final landing and set up an insensate skirling on the first door she came to. From within an irritated voice called: "Aren't you getting a little tired of that? Why don't you come in and rest your knuckles?"

"Oh." She felt faintly foolish. "It's me-Anna van Tuyl."

"Shall I take the door off its hinges, doctor?" Anna turned the knoh and stepped inside.

Ruy Jacques stood with his back to her, palette in

hand, facing an easel hathod in the slanting shafts of the setting sun. He was apparently blocking in a cari-cature of a nude model lying, face averted, on a couch heyond the easel.

Anna felt a sharp pang of disappointment. She'd wanted him to herself a little while. Her glance flicked ahout the studio.

Framed canvasses obscured by dust were stacked helter-skelter ahout the walls of the hig room. Here and there were hits of statuary. Behind a nearby screen the disarray of a cot peeped out at her. Beyond the screen was a wire-phono. In the opposite wall was a door that evidently opened into the model's dressing alcove. In the opposite corner stood a hattered electronic niano which she recognised as the Fourier audiosynesiser type.

She gave an involuntary gasp as the figure of a man suddenly separated from the piano and howed to her. So the lovely model with the invisible face must he-

Martha Jacques. There was no possibility of mistake, for now the

model had turned her face a little, and was acknowledging
Anna's faltering stare with complacent mockery.

Of all evenings, why did Martha Jacques have to pick this one?

The artist faced the easel again. His harsh jeer floated back to the psychiatrist; "Behold the perfect female hody!

Perhaps it was the way he said this that saved her. She had a fleeting suspicion that he had recognised her disappointment, had anticipated the denths of her gathering despair, and had deliberately shaken her back

into reality. In a few words he had horne upon her the idea that his enormously complex mind contained neither love nor hate, even for his wife, and that while he found in her a physical perfection suitable for transference to canvas or marble, that nevertheless he writhed in a secret torment over this very perfection, as though in essence the woman's physical heauty simply stated a lack he could not name, and might never know.

With a weary, futile motion he lay aside his hrushes and palette. "Yes, Martha is perfect, physically and mentally, and knows it." He laughed hrutally. "What

she doesn't know, is that frozen heauty admits of no plastic play of meaning. There's nothing hehind perfec-tion, because it has no meaning but itself."

There was a clamour on the stairs. "Hah!" cried Jacques. "More early-comers. The word must have got around that Martha brought the liquor. School's out, Mart. Better hop into the alcove and set dressed." Matthew Bell was among the early arrivals. His face lighted up when he saw Anna, then clouded when he

icked out Grade and Martha Jacques. Anna noticed that his mouth was twitching worriedly

as he motioned to her. "What's wrong?" she asked.

"Nothing-yet. But I wouldn't have let you come if I'd known they'd he here. Has Martha given you any

"No. Why should she? I'm here ostensibly to observe Ruy in my professional capacity."
"You don't helieve that, and if you get careless, she

won't either. So watch your step with Ruy while Martha's around. And even when she's not around. Too many eyes here—Security men—Grade's crew. Just don't let Ruy involve you in anything that might attract attention.

So much for that. Been here long?"
"I was the first guest—except for her and Grade."
"Hmm. I should have escorted you. Even though you're his psychiatrist, this sort of thing sets her to

"I can't see the harm of coming alone. It isn't as though Ruy were going to try to make love to me in front of all these people."

"That's exactly what it is as though!" He shook his

head and looked about him. "Believe me, I know him better than you. The man is insaue... unpredictable." Anna felt a tingle of anticipation... or was it of apprehension? "I'll be careful," she said.

apprehension? "I'll be careful," she said.
"Then come on. If I can get Martha and Ruy into
one of their eternal Science-versus-Art arguments, I

believe they'll forget about you,"

Trepeat," said Bell, "we are watching the germination of another Remaissance. The signs are unmistakable, and should be of great interest to practising sociologists and policemen." He turned from the little group beginning to gather about him and beamed artlessly at the passing face of Colonel Grade.

Grade paused. "And just what are the signs of a renaissance?" he demanded. "Mainly climatic change and enormously increased leisure, Colonel. Either alone can make a big difference;

combined, the result is multiplicative rather than

additive."

additive."

additive."

additive."

additive."

additive."

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additive.

addi

sture as though to walk

"Yes, these remissiones give us the Partheoon, The Lat Shoper for Holdad. Then, the artives supremen-But this time it might not harpen that way, because we have been a superior of the superior of the control of Atomic caregy has virtually shollated labour as such, hat without the international leavening of common rath unised the first Egyptian, Summers Chieses and the scientific Regyptian, Summers Chieses and the scientific Regyptian for the control of the scientific and the summer of the scientific and the scientific and the scientific and to a Sondine Down source when the scientific and the scientific and the scientific and the which, we are informed, may overright filing tune which, we are informed, may overright filing tune variety through ... unders ... "
"Unders this Recipies cooling" of "Unless this Recipies cooling" in the scientific and intensified

"United this Roomassione, marginees and intensited selected, and included the selected, the late of the Auriganeess Roomassione of twenty-five thousand BoC, to wit, the Rowering of the Cro-Mapson, the first of the mother meet. Woodshot the inronic for our presents of the mother meet. Woodshot the inronic for our greatest the hands of what may prove to be one of the first primitive specimens of homo superior—ber haukand?" Anna watched with interest as the psychopenetical with interest as the synchopenetical while set the same time he looked heyond her to each the vego of Rey Jacques, who was pilking in apparent

eye of Ruy Jacques, who was piloking in apparent amlesaness at the keyhoard of the Fourier piano. Martha Jacques said curtly: "I'm afraid, Dr. Bell, that can't get too excited shout your Recoaissone. When you come right down to it, local humanity, whether dominated by art or science, is nothing hut a temporary surface scum on a primitive hackwoods planet." Bell nodded blandly. "To most scientists Earth is

commance ny art or science, is noting nut a temporary surface scum on a primitive hackwoods planet." Bell nodded hlandly. "To most scientists Earth is admittedly commoplace. Psychogeneticists, on the other hand, coosider this planet and its people one of the wonders of the uoiverse." "Really?" asked Grade. "And just what have we

got here that they doo't have oo Betelgeuse?"

NCE FICTION

"Three shing," regical Bell. "One-Earth's straophere has trough either alles diesels derbus diesels to grow the forest-spawning grounds of man't primate ancestors, thereby insuring an ampseillund, quasi-event, manually-activated species capable of indefinite psychophysical development. It might take the sustria fille of a desert planet another structure. Two—that same aimosphere had a surface pressure of 760 nm. of mercury and a mean temperature of about 25 degrees Centigrade—excellent conditions for the transmission of yourk, speech, and song; and those early men took to it like a duck to water. Compare the difficulty of communication by direct touching of antennæ, as the arthropodic pseudo-homindal citizens of certain airless worlds must do. Three—the solar spectrum within its very short frequency range of 760 to 390 millimicrons offers seven colours of remarkable to 200 minimizons offers seven colours of remarkable variety and contrast, which our ancestors quickly made their own. From the beginning, they could see that they moved in multichrome heavily. Consider the ultra-him, for he can see only red and a little infra red. "If that's the only difference, 'smorted Grade, "I'd say you psychogeneticists were getting worked up over nothing."

nothing—in the past him as the approaching figure of Exp. Apopter. You may be ergist; of course, Colonds, hu if think you re mining the point. To the psychogeneside that the point of the post of the

"The poorhouse?" asked Jacques, sorrowfully.

Bell laughed. "Not quite. An evolutionary spurt, rather. As sapiens turns more and more into his abstract world of the arts, music in particular, the psychogenetic-ist foresees increased communication in terms of music. This might require certain cerebral realignments in sapiens, and perhaps the development of special mem-hranous neural organs—which in turn might lead to completely new mental and physical abilities, and the conquest of new dimensions—just as the human tongue eventually developed from a tasting organ into a means of long distance vocal communication.

"Not even in Ruy's Science Art distribes," said Mrs. Jacques, "have I heard greater nonsense. If this planet is to have any future worthy of the name, you can he

as to larve any future wornly of the name, you can use sure it will be through the leadership of her scientists."
"I wouldn't he too sure," countered Bell. "The artist's place in society has advanced tremendously in the past half-century. And I mean the minor artist—who is identified simply by his profession and not by any exceptional reputation. In our own time we have seen the financier forced to extend social equality to the scientist, And today the palette and musical sketch pad are gradually toppling the test tube and the cyclotron from their pedestals. In the first Renaissance the merchant and soldier inherited the ruins of church and feudal empire; in this one we peer through the crumhling walls of capitalism and nationalism and see the artist...or the scientist... ready to emerge as the cream of society. The question is, which one?"

"For the sake of law and order," declared Colonel Grade, "it must he the scientist, working in the defence of his country. Think of the military insecurity of an art-dominated society, If-"

Ruy Jacques broke in: "There is only one point on which I must disagree with you." He turned a disagraing which I must disagree with you. The turned a disarrange smile on his wife. "I really don't see how the scientist fits into the picture at all. Do you, Martha? For the artist is already supreme. He dominates the scientist, and if he likes, he is perfectly able to draw upon his more sensitive intuition for those various restatements of

artistic principles that the scientists are forever trying to foh off on a decreasingly gullihle public under the guise of novel scientific laws. I say that the artist is aware of those 'new' laws long before the scientist, and has the option of presenting them to the public in a pleasing art form or as a dry, abstruce equation. He may, like art form or as a cry, anstruse equation. He may, like da Vincie, express his discovery of a heautiful curve in the form of a hreath-taking spiral staircase in a chateau at Blois, or, like Dûrer, he may analyse the curve mathematically and announce its logarithmic formula. In either event he anticipates Den Cartes, who was the first mathematician to rediscover the logarithmic spiral."

The woman laughed grimly. "All right. You're an artist. Just what scientific law have you discovered?" "I have discovered," answered the artist with calm pride, "what will go down in history as 'Jacques' Law of Stellar Radiation."

Anna and Bell exchanged glances. The older man's look of relief said plainly: 'The hattle is joined; they'll

Martha Jacques peered at the artist suspiciously.

Anna could see that the woman was genuinely curious hut caught between her desire to crush, to damn any such amateurish 'discovery' and her fear that she was being led into a trap. Anna herself, after studying the exaggerated innocence of the man's wide, unblinking eyes knew immediately that he was subtly enticing the woman out on the rotten limb of her own dry perfection. In near-hypnosis Anna watched the man draw a sheet of paper from his pocket. She marvelled at the superh hlend of diffidence and hraggadocio with which he unfolded it and handed it to the woman scientist.

"Since I can't write, I had one of the fellows write it down for me, hut I think he got it right," he explained. "As you see, it holls down to seven prime equations,"

Anna watched a puzzled frown steal over the woman's brow. "But each of these equations expands into hundreds more, especially the seventh, which is the longest of them all." The frown deepened. "Very interesting. Already I see hints of the Russell diagram..." The man started, "What! H. N. Russell, who classified stars into spectral classes? You mean he

scooped me?"
"Only if your work is accurate, which I doubt."
The artist stammered: "But---"

The artist stammered: "But—"
"And here," she continued in crisp condemnation, "is nothing more than a restatement of the law of light-pencil wavering, which explains why stars twinkle and planets don't, and which has been known for two hundred

years."
Ruy Jacques' face lengthened lugubriously.
The woman smiled grimly and pointed. "These parameters are just a poor approximation of the Bethe law of nuclear fission in stars—old since the thirties."

The man stared at the scathing finger. "Old..."? you kept at this sort of thing all your life, you might eventually develop something novel. But this is a mere hodge-podge,

develop something novel. But this is a mere hodge-podge, a rehash of material any real scientist learned in his teens."
"But Martha," pleuded the artist, 'surely it isn't all old?"
If can't say with certainty, of course," returned the

woman with malice-edged pleasure, "until I examine every sub-equation. I can only say that, fundamentally, scientists long ago anticipated the artist, represented by the great Ruy Jacques. In the aggregate, your amazing Law of Stellar Radiation has been known for two hundred years or more."

Even as the man stood there, as though momentarily

Even as the man stood there, as though momentarily stunned by the enormity of his defeat, Anna began to pity his wife.

pily in wite.

The artist shrugged his shoulders wistfully. "Science versus Art. So the artist has given his all, and lost. Jacques' Law must sing its swan song, then be forever forgotten." He lifted a resigned face toward the scientist. "Would you, my dear, administer the coup de grace by

setting up the proper coordinates in the Fourier audiosynthesiser?"

Anna wanted to lift a warning hand, cry out to the man that he was going too far, that the humiliation he was preparing for his wife was unnecessary, unjust, and

was preparing for his wife was unnecessary, unjust, and would but thicken the wall of hatred that cemented their antipodal souls together.

But it was too late. Martha Jacques was already walking toward the Fourier plano, and within seconds had set up the polar-defined data and had flipped the toggle switch. The psychiatrist found her mind and tongue to be literally paralysed hy the swift movement of this unwitting drams, which was now toppling over the

brink of its tragicomic climax.

A deep silence fell over the room.

Anna caught an impression of avid faces, most of

whom—Jacques' most intimate friends—would understand the nature of his little playlet and would ruh salt into the ahraded wound he was delivering his wife.

Then in the space of three seconds, it was over.

The Fourier-piano had synthesised the seven equations,
six short, one long, into their tonal equivalents, and it

was over.

Dorran, the orchestra leader, broke the uneasy still-

ness that followed. "I say, Ruy old chap," he blurted, "just what is the difference in Jacques' Law of Stellar Radiation' and 'Twinkle, twinkle, little star "?"

Anna, in mingled amusement and sympathy, watched the face of Martha Jacques slowly turn crimson.

the face of Martha Jacques slowly turn crimson.

The artist replied in amazement. "Why, now that you mention it, there does seem to be a little resemblance."

mention it, there does seem to be a little resemblance."
"It's a dead ringer!" cried a voice.
"'Twinkle, twinkle' is an old continental folk tune,"

"Twinkle, twinkle" is an old continental folk tune," volunteered another. "I once traced it from Haydn's Surprise Symphony' hack to the fourteenth century."
"Oh, but that's quite impossible," protested Jacques.

"Martha has just stated that science discovered it first, only two hundred years ago."

The woman's voice dripped aqua regia. "You planned

this deliberately, just to humiliate me in front of these... these clowns."
"Martha, I assure you . . .!"

"I'm warning you for the last time, Ruy. If you ever again humiliate me, I'll prohahly kill you!"

Jacques hacked away in mock alarm until he was swallowed up in a swirl of laughter.

The group broke up, leaving the two women alone. Suddenly aware of Martha Jacques' hitter scrutiny. Anna flushed and turned toward her.

Martha Jacques said: "Why can't you make him come to his senses? I'm paying you enough." Anna gave her a slow wry smile. "Then I'll need your

help. And you aren't helping when you deprecate his sense of values-odd though they may seem to you."

"But Art is really so foolish! Science-"
Anna laughed shortly, "You see? Do you wonder he avoids you?"

"What would you do?"

"I?" Anna swallowed dryly.

Martha Jacques was watching her with narrowed eyes. "Yes, you. If you wanted him?"

Anna hesitated, breathing uneasily. Then gradually ber eyes widened, hecame dreamy and full, like moons rising over the edge of some unknown, exotic land. Her lips opened with a nerveless fatalism. She didn't care what she said:

"I'd forget that I want, above all things, to be heautiful. I would think only of him. I'd wonder what he's thinking, and I'd forsake my mental integrity and try to think as he thinks. I'd learn to see through his eyes, and to hear through his ears. I'd sing over his successes, and hold my tongue when he failed. When he's moody and depressed, I wouldn't prohe or insist that-I-could-help-you-if-you'd-only-let-me. Then---" Martha Jacques snorted. "In short, you'd he nothing

hut a selfless shadow, devoid of personality or any mind or individuality of your own. That might he all right for one of your type. But for a Scientist, the very thought

The psychiatrist lifted her shoulders delicately, "I agree. It is ridiculous. What same woman at the peak of her profession would suddenly toss up her career to

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existence, with that of an utterly alien male mentality?"
"What woman, indeed?"

Anna mused to herself, and did not answer. Finally she said: "And yet, that's the price; take it or leave it, they say. What's a girl to do?"
"Stick up for her rights!" declared Martha Jacques

"Stick up i

"All hall to unrewarding perseverance!" Ruy Jacques was hack, swaying slightly. He pointed his half-filled glass toward the ceiling and shouted: "Friends! A toast! Let us drink to the two charter members of the Knights of the Crimson Grail." He bowed in saturnine mockey to his glowering wife. "To Martha! May she soon solve the Jaccues Rostte and blast humanity into the heavens!"

Simultaneously he drank and held up a hand to since the solden spate of Jers and laughter. Then, turning toward the now apprehensive psychiatrist, he essayed a second how of such sweeping grantionity that his glass was upset. As he straightened, however, he cambly traded glasses with her. "To my old school-teacher, Dr. van Tuyl. A nightingale whose secret dark that the straight of the second with the straight of the second with the second wit

"I said you were a drunken idiot," replied Anna. "But bet it pass." She was paning, her heid whirling. She raised her voice to the growing cluster of faces. "Ladies and gentlemen, offer you the third secher of the grall! described the second of the second of the grall of epoch, whose sole aim is not aimlessness, as he would like you to thisk, but a certain marvellous rose. Her curling petals shall be of subtle texture, yet firm withal, aswe his mind and hody, and to put a soul in him."

save his mind and hody, and to put a soul in him."
"She's right!" cried the artist in dark glee. "To Ruy
Jacques, then! Join in, everyhody. The party's on

He downed his glass, then turned a suddenly grave face to his audience. "But it's really such a pity in Anna's case, isn't it? Because her cure is so simple."

The psychiatrist listened; her head was throhhing

dizzily "As any competent psychiatrist could tell her," continued the artist mercilessly, "she has identified herself with the nightingale in her hallet. The nightingale isn't much to look at. On top it's a dirty hrown; at hottom, you might say it's a drah grey. But ah! The soul of this plain little hird! Look into my soul, she pleads. Hold me in your strong arms, look into my soul, and think me as lovely as a red rose."

Even before he put his wine glass down on the table, Anna knew what was coming. She didn't need to watch the stiffening cheeks and flaring nostrils of Martha

Jacques, nor the sudden flash of fear in Bell's eyes, to know what was going to happen next.

He held out his arms to her, his swart satyr-face

nearly impassive save for its eternal suggestion of sardonic mockery. "You're right," she whispered, half to him, half to

some other part of her, listening, watching. "I do want you to hold me in your arms and think me heautiful. But you can't, hecause you don't love me. It won't work. Not yet. Here, I'll prove it."

As from miles and centuries away, she heard Grade's horrified eurele.

But her trance held. She entered the emhrace of Ruy Jacques, and held her face up to his as much as her spine would permit, and closed her eyes.

He kissed her quickly on the forehead and released her. "There! Cured!"

She stood hack and surveyed him thoughtfully. "I wanted you to see for yourself, that nothing can he heautiful to you—at least not until you learn to regard someone else as highly as you do Ruy Jacques."

Bell had drawn close. His face was wet, grey. He whispered: "Are you two insane? Couldn't you save

this sort of thing for a less crowded occasion?"

But Anna was rolling rudderless in a fatalistic calm,
"I had to show him something. Here. Now. He might

never have tried it if he hadn't had an audience. Can you take me home now?"

"Worst thing possible," replied Bell agitatedly. "That'd just confirm Martha's suspicions," He looked around nervously, "She's gone. Don't know whether that's good or had. But Grade's watching us. Ruy, if you've got the faintest intimations of decency, you'll wander over to that group of ladies and kiss a few of them. May throw Martha off the scent. Anna. you

stay here. Keep talking. Try to toss it off as an amusing incident." He gave a short strained laugh, "Otherwise you're going to wind up as the First Martyr in the

"I beg your pardon, Dr. van Tuyl."
It was Grade. His voice was hrutally cold, and the

syllables were clipped from his lips with a spine-tingling

"Yes, Colonel?" said Anna nervously. "The Security Bureau would like to ask you a few questions."

"Yes?"

Grade turned and stared icily at Bell, "It is preferred that the interrogation he conducted in private. It should not take long. If the lady would kindly step into the model's dressing room, my assistant will take over from

"Dr. van Tuyl was just leaving," said Bell huskily. "Did you have a coat, Anna?"

With a smooth unohtrusive motion Grade unsnapped the guard on his hip holster. "If Dr. van Tuyl leaves the dressing room within ten minutes, alone, she may depart from the studio in any manner she pleases."

Anna watched her friend's face hecome even paler. He wet his lips, then whispered. "I think you'd hetter go, Anna. Be careful."

THE room was small and nearly hare. Its sole furnishings were an ancient calendar, a clothes tree, a few stacks of dusty hooks, a table (bare save for a roll of canvas patching tape) and three chairs.

In one of the chairs, across the table, sat Martha Incomes.

She seemed almost to smile at Anna; but the amused curl of her heautiful lips was totally helied by her eyes, which pulsed hate with the paralysing force of physical

In the other chair sat Willie the Cork, almost unrecog-

nisable in his groomed neatness.

The psychiatrist brought her hand to her throat as though to restore her voice, and at the movement, she saw from the corner of her eye that Willie, in a lightning motion, had simultaneously thrust his hand into his

coat pocket, invisible below the table. She slowly understood that he held a gun on her.

The man was the first to speak, and his voice was so erisp and incisive that she doubted her first intuitive recognition. "Ohviously, I shall kill you if you attempt

any unwise action. So please sit down, Dr. van Tuyl. Let us put our cards on the table." It was too incredible, too unreal, to arouse any immediate sense of fear. In numb amazement she pulled

out the chair and sat down. "As you may have suspected for some time," continued

the man curtly, "I am a Security agent."

Anna found her voice, "I know only that I am being forcibly detained. What do you want?"

"Information, doctor, What government do you represent ?" 'None."

The man fairly purred. "Don't you realise, doctor, that as soon as you cease to answer responsively. I shall

kill you?" Anna van Tuvi looked from the man to the woman, She thought of circling hawks, and felt the intimations of terror. What could she have done to attract such wrathful attention? She didn't know. But then, they couldn't be sure about her, either. This man didn't want to kill her until he found out more. And hy that

time surely he'd see that it was all a mistake. She said: "Either I am a psychiatrist attending a special case, or I am not. I am in no position to prove the positive. Yet, by syllogistic law, you must accept it as a possibility until you prove the negative. Therefore,

until you have given me an opportunity to explain or disprove any evidence to the contrary, you can never

be certain in your own mind that I am other than what I claim to be

The man smiled, almost genially. "Well put, doctor.

I hope they've been paying you what you are worth." He bent forward suddenly, "Why are you trying to

make Ruy Jacques fall in love with you?"

She stared back with widening eyes, "What did you

"Why are you trying to make Ruy Jacques fall in love with you?"

She could meet his eyes squarely enough, but her voice was now very faint: "I didn't understand you at first. You said . . . that I'm trying to make him fall

in love with me." She pondered this for a long wondering moment, as though the idea were utterly new. "And I guess . . . it's true." The man looked blank, then smiled with sudden

appreciation. "You are clever. Certainly, you're the first to try that line. Though I don't know what you expect to gain with your false candour."

False? Didn't you mean it yourself? No, I see you didn't. But Mrs. Jacques does. And she hates me for it. But I'm just part of the bigger hate she keeps for him. Even her Sciomnia equation is just part of that hate. She isn't working on a biophysical weapon just because she's a patriot, but more to spite him, to show him that her science is superior to——"

Martha Jacques' hand lashed viciously across the little table and struck Anna in the mouth. The man merely murmured: "Please control yourself

a bit longer, Mrs. Jacques. Interruptions from outside would be most inconvenient at this point." His humour-less eyes returned to Anna. "One evening a week ago,

Anna nodded. "I wanted him to attempt automatic writing."

"What is 'utomatic writing'?"
"Simply writing done while the conscious mind is absorbed in a completely extraneous activity, such as music. Mr. Jacopeau was to focus his attention on creat musics composed by me while holding styles and paper caused by some psychic block, it was quite possible that his subconscious mind might hypos the block, and he would write—just as one 'doodles' unconsciously

when talking over the visor."

He thrust a sheet of paper at her, "Can you identify

What was he driving at? She examined the sheet hesitantly. "It's just a blank sheet from my private monogrammed stationery. Where did you get it?"

"From the pad you left with Mr. Jacques."

"We also found another sheet from the same pad, under Mr. Jacques' bed. It had some interesting writing

on it."
"But Mr. Jacques personally reported nil results."

"He was prohably right."
"But you said he wrote something?" she insisted;
momentarily her personal danger faded hefore her

professional interest.
"I didn't say he wrote anything."

"Wasn't it written with that same stylus?"

"It was. But I don't think he wrote it. It wasn't in his handwriting."
"That's often the case in automatic writing. The

script is modified according to the personality of the dissociated subconscious unit. The alteration is some times so great as to be unrecognisable as the handwriting of the subject."

He peered at her keenly. "This script was perfectly

of the subject."

He peered at her keenly. "This script was perfectly recognisable, Dr. van Tuyl. I'm afraid you've made a grave hlunder. Now, shall I tell you in whose hand-

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She listened to her own whisper: "Mine?" "Yes."

"What does it say?" "You know very well."

"But I don't," Her underclothing was sticking to her body with a damp clammy feeling. "At least you ought to give me a chance to explain it. May I see it?" He regarded her thoughtfully for a moment, then reached into his pocket sheaf. "Here's an electrostat.

The paper, texture, ink, everything, is a perfect copy of your original." She studied the sheet with a puzzled frown, There were a few lines of scribblings in purple. But it wasn't in her handwriting. In fact, it wasn't even handwriting.

just a mass of illegible scrawls! Anna felt a thrill of fear. She stammered: "What are

you trying to do?" "You don't deny you wrote it?"

"Of course I deny it." She could no longer control the quaver in her voice. Her lips were leaden masses, her tongue a stone slab, "It's—unrecognisable . . ."

The Cork floated with sinister patience, "In the upper left hand corner is your monogram: 'A.v.T.', the same as on the first sheet. You will admit that, at least?"
For the first time, Anna really examined the presumed trio of initials enclosed in the familiar ellipse. The ellipse

was there. But the print within it was gibberish. She scized again at the first sheet—the blank one. The feel of the paper, even the smell, stamped it as genuine. It had been hers. But the monogram! "Oh no!" she Her panic-stricken eyes flailed about the room. The

calendar . . . same picture of the same cow . . but the rest . . .! A stack of books in the corner . . . titled in gold leaf . . . gathering dust for months . . . the label on the roll of patching tape on the table . . . even the watch on her wrist.

Gibberish. She could no longer read. She had for-gotten how. Her ironic gods had chosen this critical moment to blind her with their brilliant bounty.

Then take it! And play for time! She wet trembling lips. "I'm unable to read. My reading glasses are in my bag, outside." She returned the script. "If you'd read it, I might recognise the

The man said: "I thought you might try this, just to get my eyes off you. If you don't mind, I'll quote from

memory:

what a queer climax for the Dream! Yet, inevitable. Art versus Science decrees that one of us must destroy the Scionniac weapon; but that could

wait until we become more numerous. So, what I do is for bim alone, and his future depends on ap-preciating it. Thus, Science bows to Art, but even

Art isn't all. The Student must know the one greater thing when he see the Nightingale dead, for only then will he recognise...'

He paused.
"Is that all?" asked Anna,
"That's all."

"Nothing about a . . . rose?"
"No. What is 'rose' a code word for?"

Death? mused Anna. Was the rose a cryptolalic synonym for the grave? She closed her eyes and shivered. Were those really her thoughts, impressed into the mind and wrist of Ruy Jacques from some grandstand seat at ber own ballet three weeks bence? But after all, why was it so impossible? Coleridge claimed Xanadu bad been dictated to him through automatic writing. And that English mystic, William Blake, freely acknowledged being the frequent amanuensis for an unseen personality.

And there were numerous other cases. So, from some unseen time and place, the mind of Anna van Tuyl bad been attuned to that of Ruy Jacques, and his mind bad momentarily forgotten that both of them could no

longer write, and had recorded a strange reverie. It was then that she noticed the—whispers.
No—not whispers—not exactly. More like rippling vibrations, mingling, rising, falling. Her beart beats quickened when she realised that their cerie pattern was soundless. It was as though something in her mind was suddenly whitaing or rapport with a subetheric world. Messages were heating at her for which she had no tongen or ear; they were hopond sound—boyond all directions. From the ring she wore. From the hornez buttons of her jacket. From the vertical steam piping in the corner. From the metal reflector of the ceiling light.

And the strongest and most meaningful of all showered steadily from the invisible weapon The Cork grasped in his coat pocket. Just as surely as though she had seen it done, he knew that the weapon had killed in the past. And not just once. She found herself attempting to unravel those thought residues of death—once—twice—three times . . beyond which they faded away into steady, indeotpherable time—muted violence.

And now that gun hegan to scream: "Kill! Kill! Kill!"

She passed her palm over her forehead. Her whole face was cold and wet. She swallowed noisily.

R VI/ACQUES as before the metal illuminator near his casel, apparently absorbed in the profound to the mounting paper and pathogolar the part of the mounting pairs about him. In reality he was the territorial pairs and the result of the state of the reality of the territorial part of the terri

with you around."

The artist twitched his misshapen shoulders irritahly.
"Maybe. But why should I risk my skin for a silly little

'Maybe. But why should I risk my skin for a silly little sightingale?"

"Can it he that your growth heyond sapiens has served

simply to sharpen your objectivity, to accentuate your inherent egregious want of identity with even the hest of your fellow creatures? Is the indifference that has driven Martian narrly insane in a bare deeded now too ingrained to respond to the first known female of your own unique hered? "Bull sight heavily." You don't more than the property of the property o

Martha's blunderlings. I mean The Cork, of course.

Doesn't he realise that Ama hasn't finished the score
of her hallet? Evidently has no musical sense at all.
I'll bet he was even turned down for the policemen's
charity quarter. You're right, as usual, doc. We must
punish such philistinism." He tugged at his chin. then

rose from the folding stool.

"What are you going to do?" demanded the other sharply.

The artist weaved toward the phono cahinet. "Play a certain selection from Tchaikovski's Sixth. If Anna's half the girl you think, she and Peter Ilyitch will soon have Mar agains our of their hand!"

have Mart eating out of their hands."

Bell watching him in anxious, yet half-trusting frustration as the other selected a spool from his library of electronic recordings and inserted it into the playback sprocket. In mounting mystification, he saw Jacques turn up the volume control as far as it would go

MURDER, a one-set play directed by Mrs. Jacques, thought Anna. With somed effects when thinkable that Ruy would do anything to accommodate his wife. If anything, be would try to thwart Marthab his wife. If anything, he would try to thwart Marthab his wife. If anything, he would try to thwart Marthab allow what was his purpose in starting off in the final water was his purpose in starting off in the final water was here there will be presented to get across to her? There was, She had it. She was going to five. If—

"In a moment," she told The Cork in a tight voice, "you are going to snap off the safety catch of your pistol, revise slightly your estimated line of fire, and squeeze revue signity your estimated into of Inc., and squeeze the trigger. Ordinarily you could accomplish all three acts in almost instantaneous sequence. At the present could put a bullet in my head before I could get well started. But in another sixty seconds you will no longer have that advantage, because your motor nervous system will be labouring under the superimposed pattern of the extraordinary Second Moyement of the symphony of the extraordinary Second Moyement of the symphony that we now hear from the studio."

The Cork started to smile, then he frowned faintly.

"What do you mean?"

"All motor acts are carried out in simple rhythmic patterns. We walk in the two-four time of the march. We waltz, use a pickaxe, and manually grasp or replace objects in three-quarters rhythm."

"This nonsense is purely a play for time," interjected Martha Jacques. "Kill her." "It is a fact," continued Anna burriedly. (Would that Second Movement never begin?) "A decade ago, when there were still a few factories using hand-assembly there were still a few faciories using band-aisembly methods, the workment speeched their work by breaking with the properties music." (There! It was beginning! The immortal genius of that suicidal Russian was reaching across a contary to save her!) "It so happens that the that I mentioned, and it's nother worker or worker that I mentioned, and it's nother worker or worker counters, but forefour, an oriental rhythm that gives difficulty event to later coping to try to break it down into the only rhythms to which your motor nervous system is attuned. But you can't. Never any occidental, even a professional dancer, unless he has had speci training"—ber voice wobbled slightly—"in Delcrozian eurythmics." She crashed into the table.

Even though she had known that this must happen,

her success was so complete, so overwhelming, that it momentarily appalled ber.

Martha Jacques and The Cork had moved with anxious. rapid jerks, like puppets in a nightmare. But their rhythm was all wrong. With their ingrained fourraytim was a wrong, while their injuries in a five-time pattern, the result was inevitably the arithmetical composite of the two; a neural heat, which could activate muscle tissue only when the two rhythms were in phase.

The Cork had hardly begun his frantic, spasmodic The Cork had hardly begun his frantic, spasmedic squeezo of the trigger when the carcening table knocked him hackward to the floor, stunned, heside Martha Jacques. It required hut an instant for Anna to scurry around and extract the pistol from his numhed fist. Then she pointed the trembling gun in the general direction of the carrage she had wrought and fought

an urge to collapse against the wall. She waited for the room to stop spinning, for the white, glass-eyed face of Martha Jacques to come into focus against the fuzzy hackground of the cheap paint-daubed

rug. And then the eyes of the woman scientist flickered

With a wary glance at the weapon muzzle, The Cork gingerly pulled a leg from beneath the table edge. "You

gangeriy punce a neg from beneath the tanie edge. You have the gun," he said softly. "You can't object if I assist Mrs. Jacques?"

"I do object," said Anna faintly. "She's merely unconscious... feels nothing. I want her to stay that way for a few minutes. If you approach her or make any unnessary noise, I will probably kill you. So—hoth of you must stay here until Grade investigates. I know you have a pair of handcuffs. I'll give you ten seconds to lock yourself to that steam pipe in the corner—hands

behind you, please," She retrieved the roll of adhesive patching tape from the floor and fixed several strips across the agent's lips, following with a few swift loops around the ankles to

prevent him stamping his feet. A moment later, her face a damp mask, she closed AUTHENTIC SCIENCE FICTION the door leisurely hehind her and stood there, hreathing

deeply and searching the room for Grade.

He was standing by the studio entrance, staring at her fixedly. When she favoured him with a glassy smile, he simply shrugged his shoulders and began walking slowly toward her.

In growing panis her eyes darted shout the room, Bell and Ruy Sacques were learning over the phono, apparently deeply showhed in the racing clangour of the music. So saw Bell nod a covert signal in her direction, but without looking directly at her. She tried not to seem harried as she strold over to join them, was but a few steps away when Bell lifted his head and smilled.

"Everything all right?" said the psychogeneticist loudly.

She replied clearly: "Fine. Mrs, Jacques and a Security man just wanted to ask some questions." She drew in closer. Her lips framed a question to Bell: "Can Grade bear?"

Self-like lips formed a soft, nervous guittreal: "No. He's ming off toward the dressing room door. If what I suspect happened behind that door is true, you have shout ten seconds to get out of here. And then you've got to hide." He turned abruptly to the artist. "Ruy, you've got to take her down into the Vila. Right now-immediately. Watch your opportunity and lose her when one is looking. It shouldn't be too hard in that meh."

binnediately. Watch your opportunity and lose her when on one is looking. It shouldn't be too hard in that moh." Jacques shook his head doubtfully. "Martha init oging to like this. You know how strict she is one tiquette. I think there's a very firm statement in Emily Post that the host should never, never, never walk out on his guests before looking up the liquor and silverware. Oh, well, if you insist."

"IELL ya what the professor's gonna do, ladies and gentlemen, He's gonna defend not just one paradox. Not just two. But seventeen! In the space of one short hour, and without repeating himself, and including one he just thought up five minutes ago: 'Security is dangerous'."

Ruy frowned, then whispered to Anna: "That was for

Ray frowted, then whispered to Anna: "That was for us. He means Scorily mean net circuiting. Left more on. Next door. They would hold for a woman there." On the properties of the second section of the partners of the properties of the properties of the sign (which the could no lenger read), pushed through the threving decre, and wellad undersiedy down up heirfly out of the conner of ha eye as they passed. The woman pushed unsuly, the had essend the first three properties of the third properties of the taken player; from the coins in his pocket; from the standard properties of the women connected into the properties of the properties of the women connected into the properties of the prope weapon concealed somewhere on him. The resonant histories of the chess pieces and coins she ignored. They held the encephalographic residua of too many minds. The invisible gun was clearer. There was something ahrupt and violent, alternating with a more subtic, restrained rhythm. She put her band to her throat as she considered one interpretation: Kill—but walt. Obviously, he'd dare not fire with Ruy so close.

"Rather warm here, too," murmured the artist. "Out As they stepped out into the street again, she looked chind her and saw that the man's chair was empty, She held the artist's hand and pushed and jahled after him, deeper into the revelling sea of humanity.

She ought to be thinking of ways to hide, of ways to use her new sensory gift. But another, more imperative train of thought continually clamoured at her, until finally she yielded to a gloomy brooding. Well, it was true. She wanted to he loved, and she

wanted Ruy to love her. And he knew it. Every hit of metal on her shrieked her need for his love.

But—was she ready to love him? No! How could she love a man who lived only to paint that mysterious,

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unpaintable scene of the nightingale's death, and who loved only bimself? He was fascinating, but what sensible woman would wreck ber career for such unlateral fascination? Perhaps Martha Jacques was right, after all.

"So you got him, after all!"

"So you got him, after all!"

Anna whirled toward the crazy crackle, nearly jerking her hand from Ruy's grasp.

ner nand from Ruy's grasp.

The vendress of love-philters stood leaning against the front centre pole of ber tent, grinning toothily at Anna.

While the young woman stared dazedly at ber, Jacques

spoke up crisply: "Any strange men been around, Violet?"

"Why Ruy," she replied archly, "I think you're jealous.
What kind of men?"

What kind of men?"

"Not the kind that haul you off to the alcoholic ward
on Saturday nights. Not city dicks. Security men—
quiet—seem slow, but really fast—see everybody—

quiet—seem slow, but really fast—see everybody everything."
"Ob, them. Three went down the street two minutes ahead of you,"

He rubbed his chin, "That's not so good. They'll start'at that end of the Via and work up toward us until they meet the patrol behind us,"

"Like grains of wheat hetween the millstones,"
eackled the crone. "I knew you'd turn to crime, sooner
or later. Ruy. You were the only tenant I had who naid

the rent regular."
"Mart's lawyer did that."
"Just the same, it looked mighty suspicious. You want

to try the alley behind the tent?"
"Where does it lend?"
"Cuts back into the Via, at White Rose Park,"

Anna started. "White rose?"

"We were there that first night," said Jacques, "You remember it—big rose-walled cul-de-sac. Fountain. Pretty, hut not for us, not now. Has only one entrance. We'll have to try something else."

The psychiatrist said hesitantly: "No, wait."

For some moments she had been struck by the sinister

contrast in this second descent into the Via and the irresponsible gaicty of that first night. The street, the booths, the laughter seemed the same, hut really weren't. It was like a familiar musical score, subtly altered by some demoniac hand, raised into some harsh and fatalistic minor key. It was like the second movement of Tchaikovski's Romeo and Juliet: all the hright promises of the first movement were here, but repetition had transfigured them into frightful premonitions

She shivered. That second movement, that echo of destiny, was sweeping through her in ever faster tempo, as though impatient to consummate its assignation with her. Come safety, come death, she must yield to the nattern of renetition.

Her voice had a dream-like quality: "Take me again to the White Rose Park."

"What! Talk sense! Out here in the open you may

have a chance."

"But I must go there. Please, Ruy. I think it's some-thing ahout a white rose. Don't look at me as though thing another than a second of the second of

he looked away. As the stillness grew, his face mirrored his depening introspection. "At that, the possibilities are intriguing. Martha's stooges are sure to look in on you. But will they he able to see you? Is the hand that wields the pistol equally skilled with the hrush and palette? Unlikely, Art and Science again. Pointilist school versus police school. A good one on Martha—if it works. Anna's dress is green. Complement of green is purple. Violet's dress should do it."

"My dress?" cried the old woman. "What are you un to, Ruy?"

"Nothing, luscious. I just want you to take off one of your dresses. The outer one will do."
"Sir!" Violet hegan to sputter in harely audihle gasps.

Anna had watched all this in vague detachment, accepting it as one of the man's daily insanities. She had no idea what he wanted with a dirty old purple dress,

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hut she thought she knew how she could get it for him. while simultaneously introducing another repetitive

symphony. She said: "He's willing to make you a fair trade,

The spluttering stopped. The old woman eved them both suspiciously, "Meaning what?"

"He'll drink one of your love potions,"

The leathery lips parted in amazement. "I'm agreeable, if he is, hut I know he isn't. Why, that scamp doesn't love any creature in the whole world, except maybe

"And yet he's ready to make a pledge to his beloved," said Anna.

The artist souirmed. "I like you, Anna, hut I won't

ne trapped. Anyway, it's all nonsense. What's a glass of acidified water between friends?" "The pledge isn't to me, Ruy. It's to a Red Rose."

He peered at her curiously, "Oh? Well, if it will please you . . . All right, Violet, hut off with that dress hefore you pour up." Why, wondered Anna, do I keep thinking his declara-

tion of love to a red rose is my death sentence? It's moving too fast. Who, what—is The Red Rose? The Nightingale dies in making the white rose red. So she-or I-can't be The Red Rose. Anyway, the Nightingale is uely, and the Rose is beautiful. And why must The Student have a Red Rose? How will it admit him to his mysterious dance?

"Ah, Madame De Medici is hack," Jacques took the glass and purple bundle the old woman put on the table. "What are the proper words?" he asked Anna.

"Whatever you want to say."

His eyes, suddenly grave, looked into hers. He said quietly: "If ever The Red Rose presents herself to me, I shall love her forever."

Anna trembled as he unended the glass.

A little later they slipped into the Park of the White Roses. The huds were just heginning to open, and thousands of white floreate eyes hlinked at them in the harsh artificial light. As hefore, the enclosure was empty, and silent, save for the chattering splashing of its single fountain.

Anna ahandoned a disconnected attempt to analyse

the urse that had brought her here a second time. It's all too fatalistic, she thought, too involved. If I've entrapped myself, I can't feel hitter ahout it. "Just think," she murmured aloud, "in less than ten minutes

istalist, she murmured atoust, in less than ten manuses it will all the over, one way or the other."
"Really! But where any red cross."
"Really! But where any red cross the same heart red better go. It may be rather messy in here soon." She thought of how her holy would look, sprawling, misshapen, uglier than ever. She couldn't let him see her that way.
"Oh, we've plenty of time. No red rose, ch' Hmm.

It seems to me, Anna, that you're composing yourself for death prematurely. There really is that little matter of the rose to he taken care of first, you know. As

The Student, I must insist on my rights."

What made him he this way? "Ruy, please..." Her voice was trembling, and she was suddenly very near to

"There, dear, don't apologise. Even the hest of us are thoughtless at times. Though I must admit, I never expected such lack of consideration, such poor manners, expected such lack of consideration, such poor manners, in you. But then, at leart, you aren't really an artist. You've no appreciation of form." He hegan to until the hundled purple dress, and his voice took on the argumentative dogmatism of a platform lecturer. "The perfection of form, of technique, is the highest achievement possible to the artist. When he suhordinates form to subject matter, he degenerates eventually into a hoot-lick, a scientist, or, worst of all, a Man with a Message. Here, eatch!" He tossed the gaudy garment at Anna, who accepted it in rehelilous wonder. Critically, the artist eved the nauseating contract of

the purple and green decesses, plasted momentarily towards the semi-entire of white-badded with layoud, and then continued. "There's nothing like a school-withins-towards are semi-entire that, the principlists of the impression in movement could depet colour with magnificent depth of chroma more mixed them. Do you know why the Steins of Sourist are to Irilliant and Juninious? It's because the more mixed them. Do you know why the Steins of Sourist are to Irilliant and Juninious? It's because the anter mixed them. Do you know why the Steins of Sourist are to Irilliant and Juninious? It's because the anter mixed them. Do you know why the Steins of Sourist are to Irilliant and Juninious? It's because the anterior with the semi-entire them to a series of the Sourist and the So

Anna thought hack to that first night of the street dancers. So that was why his green and purple polka dot academic gown had first seemed white! At his gesture, she stopped and stood with her humped

hack harely touching the mass of scented huds. The arched entrance was a scant hundred yards to her right. Out in the Via an ominous silence scenned to he gathering. The Security men were prohably roping off the area, certain of their quarry. In a minute or two, perhaps

sooner, they would he at the archway, guns drawn. She inhaled deeply and wet her lips.

The man smiled. "You hope I know what I'm doing, don't you? So do I."

"I think I understand your theory," said Anna, "but I don't think it has much chance of working." "Tush, child." He studied the vigorous play of the fountain speculatively. "The pigment should never harangue the artist. You're forgetting that there isn't colours long before the scientists learned to spin the same colours on a die. And those old masters could the same colours on a die. And those old masters could the state of the colour, Your green dress is our primary; Violet's purple dress is its complementary. Franto, mix 'em as pigenests into a homogenous mass, and you get brown. But daub ern on the canvas aide by side, untable bett their glitt distance, and they dress at arm's length, at your side, with a strip of rorebulst and green leaves looking out between, and you'll

Institute and specific marks from your harveer, and you in have that white rose you came here in search of."

She demurred: "But the angle of visual interruption won't be small enough to blend the colours into white, even if the police don't come any nearer than the archway. The eye sees two objects as one only when the visual angle between the two is less than sixty seconds of arc."

"That old canard doesn't apply too strictly to colours. The artist relies more on the suggestibility of the mind rather than on the mechanical limitations of the retina. Admittedly, if our lean-jawed friends stared in your direction for more than a fraction of a second, they'd direction for more than a fraction of a second, they'd see you not as a whitish latur, but as a woman in green bolding out a mass of something purple. But they aren't going to give your section of the park more than a passing glance. He pointed past the fountain toward the opposite born of the semi-circular path. "I'm going to stand over there, and the instant someone sticks bis bead an through the archway, I'm going to start walking. Now, as every artist knows, normal people in western cultures absorb pictures from left to right, because they're levo-dextro readers. So our agent's first glance will be toward you, and then his attention will be momentarily distracted by the fountain in the centre. And before he can get back to you, I'll start walking, and his eyes will have to come on to me. His attentive transition, of course, must he sweeping and imperative, yet so smooth, so subtle, that he will suspect no control. Something like Alexander's painting, Lady on a Couch, where the converging stripes of the lady's robe carry

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the eye forcibly from the lower left margin to her face at the upper right."

Anna glanced nervously toward the garden entrance, then whispered entreatingly. "Then you'd hetter go. You've got to be heyond the fountain when they look in."

in." He sniffed. "All right, I know when I'm not wanted. That's the gratitude I get for making you into a rose." "I don't care a tinker's damn for a white rose. Scat!"

He laughed, then turned and started on around the path.

As Anna followed the graceful stride of his long less.

her face hegan to write in alternate hitterness and admiration. She groaned softly, "You—feed! You gorgeous, egotistical, insufferable, unattainable FIEND! You aren't elated hecause you're saving my life; I am just a blotch of pigment in your latest masterpiece. I hate you!"

He was past the fountain now, and nearing the position he had earlier indicated.

She could see that he was looking toward the archway.

She was afraid to look there.

Now he must stop and wait for his audience. Only he didn't. His steps actually hastened. That meant...

The woman trembled, closed her eyes, and froze into a paralytic stupor through which the crunch of the man's sandals filtered as from a great distance, muffled,

Mocking.

And then, from the direction of the archway, came the quiet scraping of more footsteps.

In the next split second she would know life or death.
But even now, even as she was sounding the iclest
depths of her terror, her lips were moving with the clear
insight of imminent death. "No, I don't hate you. I
love you, Ruy. I have loved you from the first."

love you, Ruy. I have loved you from the first."

At that instant a hlue-hot hall of pain hegan crawling slowly up within her hody, along her spine, and then outward hetween her shoulder hlades, into her spinal

her knees and pulled her head back in an invitation to But no sound came from her convulsing throat,

It was unendurable, and she was fainting.

The sound of footsteps died away down the Via. At least Ruy's ruse had worked. And as the mounting anguish spread over her hack, she understood that all sound had vanished with those

retreating footsteps, forever, hecause she could no longer hear, nor use her vocal chords. She had forgotten how, but she didn't care.

For her hump had split open, and something had flopped clumsily out of it, and she was drifting gently outward into hluckness.

THE glum face of Ruy Jacques peered out through the studio window into the night-awakening Via, Before I met you, he brooded, loneliness was a magic, ecstatic hlade drawn across my heart strings; it healed the severed strands with every heat, and I had all that I wanted save what I had to have—the Red Rose. My search for that Rose alone matters! I must helieve this. I must not swerve, even for the memory of you, Anna, the first of my own kind I have ever met. I must not wonder if they killed you, nor even care. They must have killed you . . . It's heen three weeks. Now I can seek the Rose again. Onward into loneliness,

He sensed the nearness of familiar metal behind him. "Hello, Martha," he said, without turning. "Just get

"Yes. How's the party going?" Her voice seemed carefully expressionless. "Fair. You'll know more when you get the liquor

bill." "Your hallet opens tonight, doesn't it?" Still that

studied tonelessness. "You know damn well it doesn't." His voice held no rancour. "La Tanid took your hrihe and left for hit of metal on the woman was singing in secret elation.

She was thinking of a great triumph—something far
beyond her petry victory in wrecking his opening night, His searching mind caught hints of something intricate, hut integrated, completed—and deadly. Nineteen equations. The Jacques Rosette. Sciomnia. "So you've finished your toy," he murmured, "You've

got what you wanted, and you think you've destroyed what I wanted."

Her reply was harsh, suspicious. "How did you know, when not even Grade is sure? Yes, my weapon is finished. I can hold in one hand a thing that can obliterate your whole Via in an instant. A city, even a continent, would take but a little longer. Science versus Art! Bah! This concrete embodiment of hiophysics is the answer to your puerile Renaissance—your precious feather-bed world of music and painting! You and your kind are helpless when I and my kind choose to act. In the final analysis Science means force—the ability to control the minds and hodies of men."

The shimmering surface of his mind was now catching

the faintest wisps of strange, extraneous impressions, vague and disturbing, and which did not seem to originate from metal within the room. In fact, he could not be sure they originated from metal at all.

He turned to face her. "How can Science control

all men when it can't even control individuals-Anna van

Tuyl, for example?" She shrugged her shoulders. "You're only partly right. They failed to find her, but her escape was pure accident. In any event, she no longer represents any

danger to me or to the political group that I control. Security has actually dropped her from their shoot-onsight docket." He cocked his head slightly and seemed to listen.

"You haven't, I gather."

"You flatter her. She was never more than a pawn in our little game of Science versus Art. Now that she's off the hoard, and I've announced checkmate against you, I can't see that she matters."

"So Science announces ebeckmate? Isn't that a bit premature? Suppose Anna shows up again, with or without the conclusion of her hallet score? Suppose we find another prima? What's to keep us from holding The Nightingale and the Rose tonight, as scheduled?** "Nothing," replied Martha Jacques coolly. "Nothing at all, except that Anna van Tuyl has prohably joined your former prima at the South Pole by this time, and

your former prima at the Souldn't learn the score in the space of two bours, even if you found one. If this wishful thinking comforts you, why, pile it on!" vasmu timining comerts you, way, put it on:

Very slowly Jacques put his wine glass on the nearby
table. He washed his mind clear with a shake of his
satyrish head, and strained every sense into receptivity.

Something was heing etched against that slurred background of laughter and clinking glassware. Then he
sensed—or heard—something that brought thy heads

of sweat to his forehead and made him tremble.

"What's the matter with you?" demanded the woman.

As quickly as it had come, the chill was gone.

Without replying, be strode quickly into the centre of the studio.

"Fellow revellers!" he cried. "Let us prepare to double, nay, re-double our merriment!" With sardonic satisfaction he watched the troubled silence spread away from him, faster and faster, like ripples around a plaque

When the stillness was complete, be lowered his head, stretched out his hand as if in horrible warning, ar moke in the tense spectral whisper of Poe's Roderick Hasher:

"Madmen! I tell you that she now stands without the Heads turned; eyes hulged toward the entrance,

There, the door knoh was turning slowly. The door swung in, and left a cloaked figure framed in

the doorway. The artist started. He bad been certain that this must

be Anna. It must be Anna, yet it could not he. The once frail, cruelly hent hody now stood superhly erect heneath the shelter of the cloak. There was no hint of spinal deformity in this woman, and there were no marring lines of

mity in this woman, not there were no marring lites of point about her linity smilling mount and eyes, which were fixed on his. In one graceful motion her hands reached up henceth the closel, and seit in heat, too her shoulders. Then, after an almost insuntaneous admiright, she flooted here the second of the second of the second of the second here, and stood before him are less pointers, with her cape hillowing and fluttering hehind her in must encore. Datques looked down into yes that were dark fires. But her continued alsense was beginning to distorth and returning to the second of the second of the second of the returning to admire the hills of the sadden corrossor.

refusing to admit to himself his studden enormous happiness: "A woman without a tongue! By the gods! Her sting is drawn!" He shook her hy the shoulders, roughly, as though to punish this fault in her that had drawn the familiar acid to his mouth. Her arms moved up, cross-fashioned, and her hands covered his. She smiled, and a harp-arpeggio seemed to wing across his mide, and the tones rearranged them-

wing across his mind, and the tones rearranged themselves into words, like images on water suddenly smooth: "Hello again, darling. Thanks for heing glad to see me." Something in him collapsed. His arms dropped and

me."

Something in him collapsed. His arms dropped and he turned his head away. "It's no good, Anna. Why'd you come hack? Everything's faling apart. Even our hallet. Martha hought out our prima."

Again that Illing cascade of tones in his hrain: "I

Again that lilting cascade of tones in his hrain: "I know, dear, hut it doesn't matter. I'll sub heautifully for La Tanid. I know the part perfectly. And I know the Nightingale's death song, too."

the Nightingiacs death song, 100.
"Habi" he laughed harshly, annoyed at his exhibition of discouragement and her ready sympathy. He stretched his right leg into a mocking points temble: "Marvelloust You have the exact amount of drah clumsiness that we need in a Nightingale. And as for the death song, why of course you and you alone know how that ugly little hird feels when"—his geys were fixed on her mouth in third feels when "—his geys were fixed on her mouth in

the sentence inattentively, with no real awareness of its meaning—"when she dies on the thorn."

As he waited, the melody formed, vanished, and reformed and resolved into the strangest thing he had ever known: "What you are thinking is true. My lips do not move. I cannot talk. I've forgotten how, just as we hoth forgot how to read and write. But even the plainest nightingale can sing, and make the white rose red."

This was Anna transfigured. Three weeks ago he had turned his hack and left a diffident disciple to an uncertain fate. Confronting him now was this dark angel hearing on her face the luminous stamp of death. In some manner that he might hever learn, the gods had touched her heart and hody, and she had horne them straightway to him.

He stood, musing in alternate wonder and scorn. The old urge to Jeer at her suddenly rose in his gorge. His lips contorted, then gradually relaxed, as an indeserihable elation hegan to grow within him.

He could thwart Martha yet!

He leaped to the table and shouted: "Your attention, friends! In ease you didn't get all this, we've found a hallerina! The curtain rises tonight on our première performance, as scheduled!"

Over the clapping and cheering, Dorran, the orchestra conductor, shouted: "Did I understand that Dr. van Tuyl has finished the Nightingale's death song? We'll have to omit that tonight, won't we? No chance to rebearse ..."

Jacques looked down at Anna for a moment. His eye were very thoughtful when he replied: "She says it won't he omitted. What I mean is, keep that thirty-eight rest sequence in the death scene. Yes, do that, and we shall see" what we shall see"

"Thirty-eight rests as presently scored, then?"
"Yes. All right, hoys and girls. Let's he on our way.

NOW! it was a mid evening in late June, in the time of the full blooming of the roses, and the Vin got into the tonges, and the Vin per into the tonges of the children and lifted their per into the tonges of the children and lifted their of the artists along the sidewalks, so that, despite the blooking face of the artistical lights, they could paint only in delicate criments, mink yellow said whites. The pention of the contract of the contract of the children and the contract of the contra

And the lowely doad pends kept fluttering through the introspective mind of Ruy Jacques, culticiting and whispering. He brushed their skittering dance saide and considered the situation with growing apprehension. In her recurrent Deutste, he thought, Anna had always he was a support of the considered the situation with growing problems, he he between the consideration of the considera

Her reply was grave, yet it seemed to amuse her. It gave him a little trouble; there were no words for its exact meaning. It was something like "Immortality hegins with death."

He glanced at her face uneasily. "Are you looking for trouble?"

"Everything will go smoothly."

After all, he thought, she helieves she has looked into the future and has seen what will happen. "The Nightingale will not fail The Student," she added

with a queer smile. "You'll get your Red Rose."
"You can be plainer than that," he muttered.

"Secrets . . . secrets . . . Why all this you're-too-young-toknow husiness?"

But she laughed in his mind, and the enchantment of that laughter took his hreath away. Finally he said: "I admit I don't know what you're talking about. But if you're about to get involved in anything on my account,

forget it. I won't have it "

"Each does the thing that makes him happy. The Student will never he happy until he finds the Rose that will admit him to his Dance. The Nightingale will never be happy until the Student holds her in his arms and thinks her as lovely as a Red Rose. I think we may both get what we want."

He growled: "You haven't the faintest idea what you're talking about."

"Yes I have, especially right now. For ten years I've urged people not to inhibit their healthy inclinations. At the moment I don't have any inhihitions at all. It's a wonderful feeling. I've never heen so happy, I think. For the first and last time in my life, I'm going to kiss

Her hand tugged at his sleeve. As he looked down into that enchanted face, he knew that this night was hers, that she was privileged in all things, and that whatever

she willed must yield to her. They had stopped at the temporarily-erected stagedoor. She rose sur les pointes, took his face in her palms, and like a hummingbird drinking her first nectar, kissed

him on the mouth.

A moment later she led him into the dressing-room corridor.

He stifled a confused impulse to wipe the back of his hand across his lips. "Well . . . well, just remember to take it easy. Don't try to he spectacular. The artificial wings won't take it. Canvas stretched on duralite and piano wire calls for adagio. A fast pirouette, and they're ripped off. Besides, you're out of practice. Control your enthusiasm in Act I, or you'll collapse in Act II. Now, run on to your dressing room. Cue in five minutes!"

THERE is a faint, yet distinct anatomical difference in the foot of the man and that of the woman, which

keeps him earthhound, while permitting her, after long and aiduous training, to soar sur les pointes. Owing to the great and varied beauty of the arabesques open to the ballerina poised on her extended toes, the male sure observance poised on nor extended toes, the male danaeur at one time existed solely as a shadowy porteur, and was needed only to supply unobtrusive support and assistance in the exquisite enchalmenters for the ballerina. Iron muscles in leg and torso are vital in the danseur, who must help maintain the illusion that, his whirling partner is made of fairy gossamer, seeking to wing skyward from his restraining aums.

All this flashed through the incredulous mind of Ruy Jacques as be whirled in a double fouette and followed from the corner of his eye the grey figure of Anna yan Tuyl, as, wings and arms affutter, she pirouetted in the second enchainement of Act I, away from him and toward the maitre de ballet.

It was all well enough to give the illusion of flying, of alighting apparently weightless, in his arms—that was what the audience loved. But that it could ever really happen—that was simply impossible. Stage wings— things of grey canvas and duralite frames—couldn't subtract a hundred pounds from one hundred and

And yet . . . it had seemed to him that she had actually He tried to pierce her mind—to extract the truth from

the hits of metal about her. In a gust of fury he dug at the metal outline of those remarkable wings. In the space of seconds his forehead was drenched in cold sweat, and his hands were trembling. Only the fall of the curtain on the first act saved him as he stumbled

through his exit entrechat. What had Matt Bell said? "To communicate in his new language of music, one may expect our man of the future to develop specialised membranous organs, which, of course, like the tongue, will have dual functional uses,

possibly leading to the conquest of time as the tongue has conquered space."

Those wings were not wire and metal, but flesh and

hlood.

He was so absorbed in his ratiocination that he failed to become aware of an acutely unpleasant metal radiation behind him until it was almost upon him. It was an

intricate conglomeration of matter, mostly metal, resting perhaps a dozen feet hehind his back, showering the lethal presence of his wife.

the lethal presence of his wife.

He turned with nonchalant grace to face the first tangible spawn of the Sciomnia formula.

tangihle spawn of the Sciomnia formula.

It was simply a black metal hox with a few dials and huttons. The scientist held it lightly in her lap as she sat at the side of the table.

His eyes passed slowly from it to her face, and he knew that in a matter of minutes Anna van Tuyl—and all Via Rosa beyond her—would soon he soot floating

in the night wind.

Martha Jacques' face was sublime with bate. "Sit down." she said quietly.

own," see said querily.

He felt the hlood leaving his cheeks. Yet he grinned
with a fair show of geniality as be dropped into the chair.
"Certainly. The got to kill time somehow until the end
of Act III."

She pressed a hutton on the box surface.

His volition vanished. His muscles were locked, immobile. He could not breathe.

ris volution valuesces. His misses were socket, immobile. He could not breathe.

Just as he was convinced that she planned to suffocate him, her finger made another swift motion toward the hox, and he sucked in a great gulp of air. His eyes could

move a little, but his larynx was still paralysed.

Then the moments began to pass, endlessly, it seemed to him

to him.

The table at which they sat was on the right wing of the stage. The woman sat facing into the stage, while his hack was to it. She followed the preparations of the

hack was to it. She followed the preparations of the troupe for Act II with moody, silent eyes, he with straining ears and metal-empathic sense.

Only when he heard the curtain sweeping across the street-stage to open the second act did the woman speak.
"She is heautiful. And so graceful with those pianowire wings, just as if they were part of her. I don't wonder she's the first woman who ever really interested

you. Not that you really love her. You'll never love From the depths of his paralysis he studied the etched

bitterness of the face across the table. His lips were parched, and his throat a desert.

She thrust a sheet of paper at him, and her lip curled,
"Are you still looking for that rose? Search no further,
my ignorant friend. There it is—Sciomnia, complete. with its nineteen sub-equations."

The lines of unreadable symbols dug like nineteen relentless harpoons ever deeper into his twisting, racing mind. The woman's face en maced in fleeting despair, "Your

own wife solves Sciomnia and you condescend to keep her commany until you go on again at the end of Act III. I wish I had a sense of humour. All I knew was to paralyse your spinal column. Oh, don't worry. It's purely temporary. I just didn't want you to warn her. And I know what torture it is for you not to he shie to talk," She bent over and turned a knurled knoh on the side of the black steel box. "There, at least you can whisper. You'll he completely free after the weapon His lips moved in a rapid slur. "Let us hargain,

Martha. Don't kill her. I swear never to see her again." She laughed, almost gaily. He pressed on. "But you have all you really want.

Total fame, total power, total knowledge, the hody perfect. What can her death and the destruction of the Via give you?" "Everything."

"Martha, for the sake of all humanity to come, don't do this thing! I know something about Anna van Tuyl that perhaps even Bell doesn't-something she has

concealed very adroitly. That girl is the most precious creature on earth!" 126

"It's precisely hecause of that opinion—which I do not necessarily share—that I shall include her in my general destruction of the Via." Her mouth alsahed at him: "Oh, hut it's wonderful to see you squirm. For the first time in your miserable thirty years of life you really want something. You've got to crawl down from that ivory tower of indifference and actually plead with You and your damned art. Let's see it save her now!"

The man closed his eyes and hreathed deeply. In one

rapid, complex surmise, he visualised an enchainement of postures, a par de deux to he played with his wife as an unwitting partner. Like a skilled chess player, he bad analysed various variations of her probable responses to his gamhit, and he had every expectation of a successful climax. And therein lay his hesitation, for success meant

his own death.

Yet, he could not eradicate the idea from his mind. Even at this moment he helieved himself intrigued more hy the novel, if macahre, possibilities inherent in the theme rather than its superficial altruism. While seeming to lead Martha through an artistic approach to the murder of Anna and the Via, he could, in a startling, off key climax, force her to kill him instead. It amused on key climax, force her to kill nim instead. It amused him enormously to think that afterward, she would try to reduce the little comedy to charts and graph paper in an effort to discover howshe had been hypnotised. It was the first time in his life that he had courted

physical injury. The emotional sequence was new, a little heady. He could do it; he need only he careful

ahout his timing.

After hurling her challenge at him, the woman had again turned morose eyes downstage, and was apparently absorbed in a grudging admiration of the second act. But that couldn't last long. The curtain on Act II would

And there it was, followed by the muffled roar of applause. He must stall her through most of Act III,

and then . . .

He said quickly: "We still have a couple of minutes

before the last act begins, where the Nightingale dies on the thorn. There's no hurry. You ought to take time to do this thing properly. Even the best assassinations are not purely a matter of science. I'll wager you never read De Quincy's little essay on murder as a fine art. No? You see, you're a neophyte, and could do with a few tips from an old hand. You must keep in mind your objects: to destroy both the Via and Anna. But mere objects: to destroy out me via and Ania. But mere shifter too. Suppose you shoot Anna when she comes on at the heginning of Act III. Only fair. The difficulty is that Anna and the others will never know what hit them. You don't give them the opportunity to bow to you as their conqueror."

their conqueror.

He regarded her animatedly. "You can see, can't you, my dear, that some extraordinarily difficult problems in composition are involved?"

She glared at him, and seemed about to speak.

He continued hastily: "Not that I'm trying to dissuade you. You have the basic concept, and despite your lack of experience, I don't think you'll find the problem of technique insuperable. Your prelude was rather well done: freezing me in situ, as it were, to state your theme simply and without adornment, followed immediately by variations of dynamic and suggestive portent. The finale is already implicit; yet it is kept at a disciplined arm's length while the necessary structure is formed to support it and develop its stern message. She listened intently to him, and her eyes were narrow.

The expression on her face said: "Talk all you like,

This time, you won't win."

This time, you won't win."
Somewhere heyond the flimsy building-board stage
wing he heard Dorran's musicians tuning up for Act III.
His dark features seemed to grow even more earnest,
but his voice contained a perceptible burble, "So you've
blocked in the introduction and the climax. A beginning
and an end. The real problem comes now how much, and an end. The reat problem comes now: now much, and what kind—of a middle? Most beginning murder-esses would simply give up in frustrated bafflement. A few would shoot the moment Anna floats into the white rose garden. In my opinion, however, considering the wealth of material inherent in your composition, such abbreviation would be inexcusably primitive and garish if not actually vulgar."

if not actually vulgar."

Martha Jacques blinked, as though trying to break
through some indescribable spell that was being woven
about her. Then she laughed shortly, "Go on. I

about her. Then she laughed shortly, "Go on, I wouldn't miss this for anything, Just when should I

The woman studied him through heavy-lidded eyes. She said slowly: "You are a great artist—and a loatbe-

She said slov some beast."

He smiled still more amiably, "Kindly restriet your appraisals to your fields of compenence. You haven't, as yet, sufficient background to evaluate me as an artist, but let us return to your composition. Thematically, it's rather pleasing. The form, pacing, and orchestration are irreproceasible. It is adequate. And its very adequacy condemns it. One detects a certain amount of difficient artists working in a new medium. The over-cautious snarks of senius aren't setting us aslame. The artist isn't getting enough of bis own personality into the work.

And the remedy is as simple as the diagnosis: the artist must penetrate his work, wrap it around him, give it the distilled, unique essence of his heart and mind, so that it will blaze up and reveal his soul, even through the veil of unidiomatic technique."

He listened a moment to the music outside. "As Anna wrote her musical score, a hiatus of thirty-eight rests precedes the moment the nightingale drops dying from the tborn. At the start of that silence, you could start to run off your nineteen suh-equations in your little tin hox, audio-Fourier style. You might even route the equations into the loudspeaker system, if your gadget is capable of remote control."

For a long time sbe appraised him calculatingly. "I finally think I understand you. You hoped to unnerve me with your savage, over-accentuated satire, and make me change my mind. So you aren't a heast, and even though I see through you, you're even a greater artist than I at first imagined."

He watched as the woman made a number of adjust-ments on the control panel of the hlack box. When she

looked up again, her line were drawn into hard purple

She said: "But it would be too great a pity to let such art go to waste, especially when supplied by the author of "Twinkle, twinkle, little star". And you will indulge an amateur musican's vanity if I play my first Fourier composition fortissimo."

He answered her smile with a fleeting one of his own.

"An artist should never apologise for self-admiration. But watch your cueing. Anna should he clasping the white rose thorn to ber breast in thirty seconds, and that will he your signal to fill in the first half of the thirty-

eight rest hiatus. Can you see her?" The woman did not answer, but he knew that her eyes were following the hallet on the invisible stage and

Dorran's haton, heyond, with fevered intensity. The music glided to a halt.

"Now!" hissed Jacques. She flicked a switch on the hox.

They listened, frozen, as the multi-throated public address system blared into life up and down the two

The sound of Sciomnia was chill, metallic, like the eruel crackle of ice heard suddenly in the intimate warmth of an enchanted garden, and it seemed to chatter derisively, well aware of the magic that it shattered.

As it clattered and skirled up its harsh tonal staircase, it seemed to shriek: "Fools! Leave this childish nonsense

and follow me! I am Science! I AM ALL!"

and follow file: I am science: I AM ALL!

And, Ruy Jacques, watching the face of the prophetess
of the God of Knowledge, was for the first time in his
life aware of the possibility of utter defeat.

As he stared in mounting horror, her eyes rolled
slightly upward, as though buoyed by some irrestistible

inner flame, which the pale translucent cheeks let through.

But as suddenly as they had come, the nineteen chords
were over, and then, as though to accentuate the finality

of that mocking manifesto, a ghastly aural afterimage of silence began building up around his world.

For a near eternity it seemed to him that he and this

row a near etermity it seemed to him that he and this woman were alone in the world, that, like some wicked witch, the had, through her escophonic creation, munitably frozen the thousands of invisible watchers. It was a strange, yet simple thing that broke the appulling silence and restored sanity, condidence, and they to resist to the man: from somewhere far away, a child whimpered.

Breathing as deeply as his near paralysis would permit, the artist murmured: "Now, Martha, in a moment I

the arts; marmarea. Your, startas, in a moment I think you will hear why I suggested your Fourier broadcast. I fear Science has been had once mo—'' He never finished, and her eyes, which were crystallising into question marks, never fired their barhs. A towering tidal wave of toone was enguling the Vis, apparently of no human source and from no human instrument.

Even he, who had suspected in some small degree what was coming, now found his paralysis once more complete. Like the woman scientist opposite him, he could only sit in motionless awe, with eyes glazing, Jaw dropping, and tongue cleaving to the roof of his mouth. He knew that the heart-strings of Anna van Tuyl were one with this mightly sea of song, and that it took its estatic timber from the reverberating volutes of that

god-like mind.

And as the magnificent cbords poured out in exquisite consonantal sequence, now with a sudden reedy delicacy, now with the radiant gladness of cymbals, be knew that

now with the radiant gladness of cymbals, be knew that his plan must succeed.

For, chord for chord, tone for tone, and measure for

measure, the Nightingale was repeating in her death song the nineteen chords of Martha Jacques' Sciomnia equations.

Only now those chords were transfigured, as though some Parnassian composer were compassionately correcting and magically transmuting the work of a dull pupil.

The melody spiralled bravenward on wings. It demanded no allegiunce; it hurled no pronunciamento. It held a message, but one almost too glorious to be grasped. It was stoeped in boundless aspiration, but it was at peace with man and his universe. It sparkled humility, and in its abnegation there was grandeur. Its

very incompleteness served to hint at its boundlessness.
And then it, too, was over. The death song was done.
Yes, thought Ruy Jacques, it is the Sciomnia, rewritten,
recast, and breatbed through the blazing soul of a

recast, and breathed through the blazing soul of a goddess. And when Martha realises this, when she sees how I tricked ber into broadcasting her trilling, inconsequential effort, she is going to fire her weapon—at the.

He watched the woman's face go livid, her mouth

He watched the woman's face go livid, her mouth work in speechless hate. "You knew!" she screamed, "You did it to humiliate

Jacques began to laugh. It was a nearly silent laughter, rhythmic with mounting ridicule, pitiless in its mockery. "Stop that!"

Tell the others

But his abdomen was convulsing in rigid helplessness, and tears hegan to stream down his cheeks. "I warned you once hefore!" yelled the woman. Her

hand darted toward the black box and turned its lone axis toward the mon

Like a period punctuating the rambling, aimless sentence of his life, a ball of blue light burst from a

cylindrical hole in the side of the hox. His laughter stopped suddenly. He looked from the

box to the woman with growing amazement. He could hend his neck. His paralysis was gone.

She stared back, equally startled. She gasped: "Something went wrong! You should be dead!"

The artist didn't linger to argue. In his mind was the increasingly urgent call of Anna

van Tuvl. ORRAN waved back the awed mass of spectators as Jacques knelt and transferred the faerie body from Bell's arms into his own.

"I'll carry you to your dressing room," he whispered, "I might have known you'd over-exert yourself."

Her eyes opened in the general direction of his face; in his mind came the tinkling of bells: "No . . . don't

He looked up at Bell. "I think she's hurt! Take a look here!" He ran his hands over the seething surface of the wing folded along her side and hreast; It was fevered

"I can do nothing," replied the latter in a low voice. "She will tell you that I can do nothing."
"Anna!" cried Jacques, "What's wrong? What

happened?"

Her musical reply formed in his mind. "Happened? Sciomnia was quite a thorn. Too much energy for one mind to disperse. Need two . . . three. Three could dematerialise weapon itself. Use wave formula of matter.

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"Others? What are you talking about?" His thoughts whirled incoherently

"Others like us. Coming soon. Bakine, dancing in streets of Leningrad. In Mexico City . . , the poetress

Orteza. Many . . . this generation. The Golden People. Matt Bell guessed. Look!" An image took fleeting form in his mind. First it was music, and then it was pure thought, and then it was a crisp strange air in his throat and the tang of something marvellous in his mouth. Then it was gone. "What was

that?" he gasped.

"The Zhak symposium, seated at wine one April evening in the year 2437. Probability world. May...not occur. Did you recognise yourself?"

Twenty-four thirty-seven?" His mind was fumbling. "Yes. Couldn't you differentiate your individual mental contour from the whole? I thought you might. The group was still somewhat immature in the twentyhundreds. By the fourteenth millenium . . ."

His head reeled under the impact of something titanic. "... your associated mental mass . . . creating a star of the M spectral class . . . galaxy now two-thirds terrestrialised . . ."

In his arms her wings stirred uneasily; all unconsciously he stroked the hot memhranous surface and ruhhed the marvellous bony framework with his fingers. "But Anna," he stammered, "I do not understand how this

can he." Her mind murmured in his. "Listen carefully, Ruy, Your pain . . . when your wings tried to open and couldn't . . . you needed certain psychoglandular stimulus. When you learn how to"—here a phrase he could not

"When I learn—what?" he demanded. "What did you

say I had to know, to open my wings?"
"One thing. The one thing. . . must have . . . to see

the Rose." "Rose-rose-rose!" he cried in near exasperation. "All right, then, my dutiful Nightingale, how long must I wait for you to make this remarkable Red Rose? I ask you, where is it?"

"Please . . not just yet . . in your arms just a little longer . . while we finish hallet. Forget yourself, Ruy. Unless . . leave prison . . own heart . . never find the Rose, Wings never unfold ... remain a mortal, Science ... isn't all. Art isn't . . . one thing greater . . . Ruyl I

can't prolong . . ."
He looked up wildly at Bell.

The psychogeneticist turned his eyes away heavily.

"Don't you understand? She has heen dying ever since she absorbed that Sciomniac hlast."
A faint murmur reached the artist's mind. "So you couldn't learn . . . poor Ruy . . . poor Nightingale . ." As he stared stuporously, her dun-coloured wings

began to shudder like leaves in an October wind. From the depths of his shock he watched the fluttering of the wings give way to a sudden convulsive straining

of her legs and thighs. It surged upward through her blanching body, through her abdomen and chest, pushing her hlood hefore it and out into her wings. which now appeared more purple than grey.

To the old woman standing at his side, Bell observed
quietly: "Even home standing this side, Bell observed

his risor mortis."

The vendress of love philters nodded with anile sadness.

"And she knew the answer...lost..."

And still the blood came, making the wing membranes

"Anna!" shricked Ruy Jacques. "You can't die. I won't let you! I love you! I love you!" He had no expectation that she could still sense the

images in his mind, nor even that she was still alive.

But suddenly, like stars shining their brief hrilliance

But suddenty, like stars siming their brief milliance through a rift in storm clouds, her lips parted in a gay smile. Her eyes opened and seemed to hathe him in an intimate flow of light. It was during this momentary illumination, just before the lips solidified into their final enigmatic mask, that he thought he heard, as from

AUTHENTIC SCIENCE FICTION

a great distance, the opening measures of Weber's

A this moment the conviction formed in his numbed understanding that her loveliness was now supernal. At this moment the conviction formed in his numbed understanding that her loveliness was now supernal. At greater beauty could not be conceived or endured. But even as he pazed in stricken wonder, the blood-gorged wings cutted slowly un and out, enfolding the vivry breast and shoulders in blinding scarlet, like the petals of some magnificent row.

THE END



Reviews

by the Editor

Our only fiction title this ments comes from Develhelly as ments comes from Develhelly and the property of the

Across the Space Frontier is something we have all been waiting for, and the fact that it costs 21s. (from Sidgwick and Jackson, 44 Museum Street, London, W.C.I.) should be no excuse for not buying it. This is an expanded version of the Collier's space-flight issue. Profinely illustrated with drawings that make you giest, the book is a symposium by Joseph Kasha, Ley, Oncar Schochter and Fred Whipple. It deals with most superior of space flight in a communer, Mathematical on the content of the content

those into

objected side of obsmitty, licineman (96 Great Rousd) licineman (96 Great Rousd) light brought out an excellent light brought out an excellent licineman (196 July 196 July 19

A new philosophy of the universe has been proposed in short form by J. G. Bird (2 Park Road, London, N.8.) in Park Road, London, N.8.) in Park Road, London, N.8.) in the park Road of the park Road of the large hook with the preparing a larger book with will embrace many more facts are points with which everyon can find disagreement. A review of this benght is not sufficient or of this benght is not sufficient with the everyon marked up your room minds. On make up your own minds. On considered opinion will be given in a narticle in a future lissue.

The Chronical Basis of Manus Development by Performe C. L. Hallsworth, in published by the University of Nottingham: a lateral beautiful by the Committee of th



Technology that recent work in experimental physics has invalidate many of Emotion's conclusions following on the theory of relativistics Since this theory made such a hig impression on physics, it will interesting to see what effect the overthrow of the theory in present form might have.

*** STAR LETTER ***

I'd like to comment on the January Authentic. The cover was really nice; I like the word-ing, but the picture isn't all that ood. Better than your past orts though. To my n tle would look better in hi ther than in its present fo sue number. Happy days! At last we find a decent back cover with no more cries for me to stop smoking or buy lucky charms. Keep that up. And it's nice to see you've got some decent authors for a chan The stories are well up to their standard. Glad to see you've left Forry's column in and the rest of the articles. I do think and I would make a cry for company excluded)). You can have more improvement by dropping that serial. It isn't worth printing. And I see that "Joan the Wad" still reigns

supreme on the inside covers.

Drop her and everybody will

All in all, a real improvement that's been long overdue. Here's one new subscriber!

JAMES RATIGAN. 96 Perry Rise. Forest Hill, S.E. 23.

As the writer of this starred letter, Mr. Ratigan receives six non-fiction books in appreciation, A similar award is made each

SCIENCE v. FICTION I'd like to congratulate you

make: let's have more so and less fiction. Could any o your readers let me have Nos. I

223 von Honden Street. Capital Park. Pretoria, S. Africa, Do you mean science features or science in the stories? The latter is already there. No doubt one of our readers will oblice you with the back numbers. Write

A. FORIG.

LOCAL TALENT

I am heartily delighted with the improvements scheduled for '53. These changes have come at just the right time, for the publication over here of two American magazines will mean pretty hot competition for our own sft mass. However, the inclusion in Authentic of tonflight authors will certainly keep the mag, at the forefront, While I am very pleased at the prospect of reading material by the his names, I bope you will oot deviate from your policy of bringing along the local talent.

I still find 4sJ's column most interesting, and I hope that the Handbook feature will be re-tained or even enlarged. P. W. CARTER. 191 Fratton Road.

Frattoo, Portsmouth, Your letters are a pleasure to receive, Mr. Carter, and you can see that we have listened to your complaints. The local talent will be appearing in next month's lense.

ALARMED I was disturbed about the serial, but I was genuir serial, out i was genumery alarmed at the announcement that you inteed to include short stories in your magazine and to make use of illustrations. Anyone can go to town and fill his arms with sf mags, that deal in covelettes and short stories, which depend oo garrish illor of scantily-clad women and spine-

chilling moosters for their public.

I have always advocated Authentic as the embodiment of gained the respect and popular-ity you oow bold through your single novel system. I believe you will find it bard oot to lapse ioto seosationalism, which is the only thing that ultimately satis-fics short-story fans.

> BRIAN BELL. 25 Houstoo Park,

Get it quite clear, Brian, that we are continuing to publish a long novel. The shorts are there for free. If you don't want to read them, you've still got the novel just as you had it before. But do read them. We'll steer clear of sensationolism and monsters, never fear. And there'll be very few damzels. Anyway, you'll be pleased to know we are dearning serials.

BARGAIN

If all that's promised is ful-filled, Authorite will be a bargain at 1s. 6d. The magazine offers better value for money than any other at the present time, and for these issues I'd be prepared to pay 2s. (though I bope that won't be occussary).

J. ASHCROFT. Manor House Farm. Asheroft. You're a man of

Nr. Ormskirk Lanca That's the way to talk, Mr. perception. And don't be afraid that we'll raise our price. We know we're giving better value than 2s, magazines and that's the way we are going to keep it. Remember, too, that it doesn't cost any more to subscribe to Authoritic. We are alove in that respect.

BOOK FORM

With regard to the Handbook, would it be possible to publish a complete list of these items in book form?

hook form? G. COLLISON, A/C2 2538182, Hut A/4, 12 Site,

R.A.F., 90 M/U, Warton, Nr. Preston, Lancs. Could be. But only if a lot of people want it. All there is favour of the idea should write to

NO MISTAKE

In your Handbook you quote Newton's second Law of Motion thus: "The rate of change of momentum of a body is proportional to the external force." Surely the word welecity should be substituted for momentum. Momentum varies with the mass of a body, not the external force. After all, the equation reads

orr au, the equation reads
primentum =velocity x miss.
G. H. DOWNES,
155 Victoris Way,
Charlton S. E. 7.
in your next issue.

Newton thought otherwise, He could have reasoned this way: we are dealing here not with a change in momentum, but with a title of change of momentum. And

the rate of change of momentum = e mast × acceleration. Acceleration, of course, is rate of change e of velocity. The Second Low of Motion is concerned with secoleration, not velocity. Putting the word welocity into the taw would make it meaningless. Any elementary physics textbook will evaluate the or terrate learth.

JUNIOR FANS

I sm delighted with the wonderful hooks on af that you are

now producing, your covers could not be better, keep up the fine work. I wish to congratulate your author, Bryan Berry, on pro-

ducing a suprisingly good story, the Afternisth, it was a delightful change. If Bryan keeps up like this be will soon be well ahead of all your other sf authors.

I am proud to say that I have

so far managed to get 27 other teenagers interested since I started reading of less than a year ago. I am trying to open a club to all teenagers interested in sf, that is, teenagers everywhere.

write to: Tecnagers' S.F. Club, c/o 12, Diamana Road, Ladysmith.

Ladysmith, Natal, South Africa. I would be pleased if you could give my club a mention

> VERNON COLLETT, (address as above)

Well, there's your mention, Vernon, and the best wishes of Authentic so to present and all

future membe

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